

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 13, 2006, 07:12:30 ; Search time 11738 Seconds
(without alignments)
11264.088 Million cell updates/sec

Title: US-09-743-825-1
Perfect score: 2326
Sequence: 1 ccggggctggagggggcaaa.....agggaagtggagaaaaaaa 2326

Scoring table: OLIGO NUC
Gapop_60.0 , Gapext 60.0

Searched: 5883141 seqs, 28421725653 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1641224

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Listing first 1000 summaries

Database : GenEmbl:

- 1: gb_ba:
- 2: gb_in:
- 3: gb_env:
- 4: gb_om:
- 5: gb_ov:
- 6: gb_pat:
- 7: gb_ph:
- 8: gb_pr:
- 9: gb_ro:
- 10: gb_sts:
- 11: gb_sv:
- 12: gb_un:
- 13: gb_vi:
- 14: gb_hcg:
- 15: gb_pl:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 26 | 1.1 | 26 | 6 | AX769408 Sequence |
| 2 | 22 | 0.9 | 22 | 6 | CQ800838 Sequence |
| 3 | 22 | 0.9 | 22 | 6 | CQ800839 Sequence |
| 4 | 22 | 0.9 | 22 | 6 | AX769407 Sequence |
| 5 | 22 | 0.9 | 22 | 6 | AX769409 Sequence |
| 6 | 20 | 0.9 | 20 | 6 | CQ799122 Sequence |
| 7 | 20 | 0.9 | 20 | 6 | CQ799123 Sequence |
| 8 | 17 | 0.7 | 20 | 6 | AR122487 Sequence |
| 9 | 17 | 0.7 | 23 | 6 | CS093550 Sequence |
| 10 | 16 | 0.7 | 22 | 6 | AR252672 Sequence |
| 11 | 16 | 0.7 | 22 | 6 | AX403553 Sequence |
| 12 | 16 | 0.7 | 23 | 6 | CQ798130 Sequence |
| 13 | 16 | 0.7 | 23 | 6 | CS093551 Sequence |
| 14 | 16 | 0.7 | 24 | 6 | AR059920 Sequence |
| 15 | 16 | 0.7 | 24 | 6 | AR059921 Sequence |
| 16 | 16 | 0.7 | 25 | 6 | CQ862656 Sequence |
| 17 | 16 | 0.7 | 30 | 6 | E40787 Antihuman F |
| 18 | 15 | 0.6 | 17 | 6 | AX266831 Sequence |

| | | | | | | | | | | | | | | | | |
|---|-----|----|-----|----|---|-----------|--------------------|---|-----|-----|-----|-----|----|----------|--------------------|--------------------|
| C | 92 | 14 | 0.6 | 20 | 6 | BD228292 | BD228292 Antisense | C | 165 | 14 | 0.6 | 29 | 6 | BD202333 | BD202333 Method an | |
| | 93 | 14 | 0.6 | 20 | 6 | E09829 | E09829 Primer. 9/1 | | C | 166 | 14 | 0.6 | 29 | 6 | BD240955 | BD240955 A novel h |
| | 94 | 14 | 0.6 | 20 | 6 | AR221984 | AR221984 Sequence | | C | 167 | 14 | 0.6 | 29 | 6 | BD253766 | BD253766 Regulatio |
| | 95 | 14 | 0.6 | 20 | 6 | AR224767 | AR224767 Sequence | | C | 168 | 14 | 0.6 | 29 | 6 | CQ881727 | CQ881727 Sequence |
| | 96 | 14 | 0.6 | 20 | 6 | AR236872 | AR236872 Sequence | | C | 169 | 14 | 0.6 | 29 | 6 | CQ881728 | CQ881728 Sequence |
| C | 97 | 14 | 0.6 | 20 | 6 | AR442596 | AR442596 Sequence | | C | 170 | 14 | 0.6 | 29 | 6 | AR437642 | AR437642 Sequence |
| | 98 | 14 | 0.6 | 20 | 6 | AR640289 | AR640289 Sequence | | C | 171 | 14 | 0.6 | 29 | 6 | AR443246 | AR443246 Sequence |
| | 99 | 14 | 0.6 | 20 | 6 | AX111369 | AX111369 Sequence | | C | 172 | 14 | 0.6 | 30 | 6 | A08032 | A08032 Oligonucleo |
| | 100 | 14 | 0.6 | 20 | 6 | AX167902 | AX167902 Sequence | | C | 173 | 14 | 0.6 | 30 | 6 | A43129 | A43129 Sequence 15 |
| | 101 | 14 | 0.6 | 20 | 6 | AX298884 | AX298884 Sequence | | C | 174 | 14 | 0.6 | 30 | 6 | AR033996 | AR033996 Sequence |
| C | 102 | 14 | 0.6 | 20 | 6 | AX537926 | AX537926 Sequence | | C | 175 | 14 | 0.6 | 30 | 6 | AR124005 | AR124005 Sequence |
| | 103 | 14 | 0.6 | 20 | 6 | AX571908 | AX571908 Sequence | | C | 176 | 14 | 0.6 | 30 | 6 | BD103767 | BD103767 A method |
| C | 104 | 14 | 0.6 | 21 | 6 | AR097627 | AR097627 Sequence | | C | 177 | 14 | 0.6 | 30 | 6 | BD250016 | BD250016 Insect p5 |
| C | 105 | 14 | 0.6 | 21 | 6 | BD063098 | BD063098 Insulin-1 | | C | 178 | 14 | 0.6 | 30 | 6 | CQ902843 | CQ902843 Sequence |
| | 106 | 14 | 0.6 | 21 | 6 | CS093908 | CS093908 Sequence | | C | 179 | 14 | 0.6 | 30 | 6 | CQ902844 | CQ902844 Sequence |
| C | 107 | 14 | 0.6 | 21 | 6 | CS093956 | CS093956 Sequence | | C | 180 | 14 | 0.6 | 30 | 6 | CS052690 | CS052690 Sequence |
| | 108 | 14 | 0.6 | 21 | 6 | AR651151 | AR651151 Sequence | | C | 181 | 14 | 0.6 | 30 | 6 | AR213436 | AR213436 Sequence |
| C | 109 | 14 | 0.6 | 21 | 6 | AX0011243 | AX0011243 Sequence | | C | 182 | 14 | 0.6 | 30 | 6 | AR408656 | AR408656 Sequence |
| | 110 | 14 | 0.6 | 22 | 6 | CS113571 | CS113571 Sequence | | C | 183 | 14 | 0.6 | 30 | 6 | AR429835 | AR429835 Sequence |
| C | 111 | 14 | 0.6 | 22 | 6 | AX038513 | AX038513 Sequence | | C | 184 | 14 | 0.6 | 30 | 6 | AR569318 | AR569318 Sequence |
| | 112 | 14 | 0.6 | 23 | 6 | BD196534 | BD196534 Prostatic | | C | 185 | 14 | 0.6 | 30 | 6 | AR595911 | AR595911 Sequence |
| C | 113 | 14 | 0.6 | 23 | 6 | CQ875212 | CQ875212 Sequence | | C | 186 | 14 | 0.6 | 30 | 6 | AX098446 | AX098446 Sequence |
| C | 114 | 14 | 0.6 | 23 | 6 | AX038514 | AX038514 Sequence | | C | 187 | 14 | 0.6 | 30 | 6 | AX537726 | AX537726 Sequence |
| | 115 | 14 | 0.6 | 23 | 6 | AX745983 | AX745983 Sequence | | C | 188 | 14 | 0.6 | 30 | 6 | AX934331 | AX934331 Sequence |
| C | 116 | 14 | 0.6 | 23 | 6 | AX922778 | AX922778 Sequence | | C | 189 | 14 | 0.6 | 30 | 6 | AX937954 | AX937954 Sequence |
| C | 117 | 14 | 0.6 | 23 | 6 | AX922790 | AX922790 Sequence | | C | 190 | 14 | 0.6 | 30 | 6 | BD015973 | BD015973 Novel Tet |
| C | 118 | 14 | 0.6 | 23 | 6 | AX922793 | AX922793 Sequence | | C | 191 | 13 | 0.6 | 13 | 6 | AR070536 | AR070536 Sequence |
| | 119 | 14 | 0.6 | 23 | 6 | AX937533 | AX937533 Sequence | | C | 192 | 13 | 0.6 | 13 | 6 | AR166563 | AR166563 Sequence |
| C | 120 | 14 | 0.6 | 24 | 6 | A47371 | A47371 Sequence 3 | | C | 193 | 13 | 0.6 | 13 | 6 | BD064912 | BD064912 Method fo |
| C | 121 | 14 | 0.6 | 24 | 6 | A58795 | A58795 Sequence 6 | | C | 194 | 13 | 0.6 | 13 | 6 | BD188590 | BD188590 Method fo |
| | 122 | 14 | 0.6 | 24 | 6 | BD235851 | BD235851 Nucleic a | | C | 195 | 13 | 0.6 | 13 | 6 | CQ875762 | CQ875762 Sequence |
| C | 123 | 14 | 0.6 | 24 | 6 | CS129728 | CS129728 Sequence | | C | 196 | 13 | 0.6 | 13 | 6 | AR374799 | AR374799 Sequence |
| C | 124 | 14 | 0.6 | 24 | 6 | AR304627 | AR304627 Sequence | | C | 197 | 13 | 0.6 | 13 | 6 | AR615455 | AR615455 Sequence |
| C | 125 | 14 | 0.6 | 24 | 6 | AR583994 | AR583994 Sequence | | C | 198 | 13 | 0.6 | 13 | 6 | AX085817 | AX085817 Sequence |
| | 126 | 14 | 0.6 | 24 | 6 | AR595694 | AR595694 Sequence | | C | 199 | 13 | 0.6 | 14 | 6 | BD209389 | BD209389 Enzymatic |
| C | 127 | 14 | 0.6 | 24 | 6 | AX038515 | AX038515 Sequence | | C | 200 | 13 | 0.6 | 15 | 6 | AR055864 | AR055864 Sequence |
| C | 128 | 14 | 0.6 | 25 | 6 | CQ863938 | CQ863938 Sequence | | C | 201 | 13 | 0.6 | 15 | 6 | AR113622 | AR113622 Sequence |
| C | 129 | 14 | 0.6 | 25 | 6 | CQ864079 | CQ864079 Sequence | | C | 202 | 13 | 0.6 | 15 | 6 | AR133655 | AR133655 Sequence |
| C | 130 | 14 | 0.6 | 25 | 6 | CQ866287 | CQ866287 Sequence | | C | 203 | 13 | 0.6 | 15 | 6 | CS002016 | CS002016 Sequence |
| C | 131 | 14 | 0.6 | 25 | 6 | AX038516 | AX038516 Sequence | | C | 204 | 13 | 0.6 | 15 | 6 | I23532 | Sequence 7 |
| C | 132 | 14 | 0.6 | 25 | 6 | AX042683 | AX042683 Sequence | | C | 205 | 13 | 0.6 | 15 | 6 | AR285736 | AR285736 Sequence |
| C | 133 | 14 | 0.6 | 25 | 6 | AX042689 | AX042689 Sequence | | C | 206 | 13 | 0.6 | 15 | 6 | AR397727 | AR397727 Sequence |
| C | 134 | 14 | 0.6 | 25 | 6 | AX043484 | AX043484 Sequence | | C | 207 | 13 | 0.6 | 15 | 6 | AR540777 | AR540777 Sequence |
| C | 135 | 14 | 0.6 | 25 | 6 | AX043486 | AX043486 Sequence | | C | 208 | 13 | 0.6 | 15 | 6 | AR613528 | AR613528 Sequence |
| C | 136 | 14 | 0.6 | 25 | 6 | AX043635 | AX043635 Sequence | | C | 209 | 13 | 0.6 | 15 | 6 | AR630606 | AR630606 Sequence |
| C | 137 | 14 | 0.6 | 25 | 6 | AX043690 | AX043690 Sequence | | C | 210 | 13 | 0.6 | 15 | 6 | AX632905 | AX632905 Sequence |
| C | 138 | 14 | 0.6 | 25 | 6 | AX043742 | AX043742 Sequence | | C | 211 | 13 | 0.6 | 15 | 6 | AX770827 | AX770827 Sequence |
| C | 139 | 14 | 0.6 | 26 | 6 | AR091143 | AR091143 Sequence | | C | 212 | 13 | 0.6 | 15 | 11 | ASE277781 | AJ277781 Artificia |
| C | 140 | 14 | 0.6 | 26 | 6 | AR198178 | AR198178 Sequence | | C | 213 | 13 | 0.6 | 16 | 6 | CQ786338 | Sequence |
| C | 141 | 14 | 0.6 | 26 | 6 | AR260332 | AR260332 Sequence | | C | 214 | 13 | 0.6 | 16 | 6 | AR329603 | AR329603 Sequence |
| | 142 | 14 | 0.6 | 26 | 6 | AX449610 | AX449610 Sequence | | C | 215 | 13 | 0.6 | 16 | 6 | AR652058 | AR652058 Sequence |
| C | 143 | 14 | 0.6 | 27 | 6 | AR013905 | AR013905 Sequence | | C | 216 | 13 | 0.6 | 17 | 6 | A17236 | Oligonucleo |
| C | 144 | 14 | 0.6 | 27 | 6 | AR033859 | AR033859 Sequence | | C | 217 | 13 | 0.6 | 17 | 6 | AR027619 | AR027619 Sequence |
| C | 145 | 14 | 0.6 | 27 | 6 | AR042519 | AR042519 Sequence | | C | 218 | 13 | 0.6 | 17 | 6 | AR051160 | AR051160 Sequence |
| C | 146 | 14 | 0.6 | 27 | 6 | AR058399 | AR058399 Sequence | | C | 219 | 13 | 0.6 | 17 | 6 | AR051161 | AR051161 Sequence |
| C | 147 | 14 | 0.6 | 27 | 6 | AR088225 | AR088225 Sequence | | C | 220 | 13 | 0.6 | 17 | 6 | BD266353 | Universal |
| C | 148 | 14 | 0.6 | 27 | 6 | AR102957 | AR102957 Sequence | | C | 221 | 13 | 0.6 | 17 | 6 | CQ617260 | Sequence |
| C | 149 | 14 | 0.6 | 27 | 6 | AR119603 | AR119603 Sequence | | C | 222 | 13 | 0.6 | 17 | 6 | CQ617261 | Sequence |
| C | 150 | 14 | 0.6 | 27 | 6 | AR153619 | AR153619 Sequence | | C | 223 | 13 | 0.6 | 17 | 6 | CQ617262 | Sequence |
| C | 151 | 14 | 0.6 | 27 | 6 | BD064701 | BD064701 Liver fun | | C | 224 | 13 | 0.6 | 17 | 6 | CQ617263 | Sequence |
| C | 152 | 14 | 0.6 | 27 | 6 | BD174170 | BD174170 Periplast | | C | 225 | 13 | 0.6 | 17 | 6 | CQ617264 | Sequence |
| C | 153 | 14 | 0.6 | 27 | 6 | BD174218 | BD174218 Caspase 3 | | C | 226 | 13 | 0.6 | 17 | 6 | CQ621599 | Sequence |
| C | 154 | 14 | 0.6 | 27 | 6 | BD185097 | BD185097 Caspase 3 | | C | 227 | 13 | 0.6 | 17 | 6 | CQ621600 | Sequence |
| C | 155 | 14 | 0.6 | 27 | 6 | BD185125 | BD185125 Cell diff | | C | 228 | 13 | 0.6 | 17 | 6 | CQ621601 | Sequence |
| C | 156 | 14 | 0.6 | 27 | 6 | I63606 | I63606 Sequence 31 | | C | 229 | 13 | 0.6 | 17 | 6 | CQ621602 | Sequence |
| C | 157 | 14 | 0.6 | 27 | 6 | AR188100 | AR188100 Sequence | | C | 230 | 13 | 0.6 | 17 | 6 | CQ621603 | Sequence |
| C | 158 | 14 | 0.6 | 27 | 6 | AR353011 | AR353011 Sequence | | C | 231 | 13 | 0.6 | 17 | 6 | CQ625766 | Sequence |
| C | 159 | 14 | 0.6 | 27 | 6 | AX454980 | AX454980 Sequence | | C | 232 | 13 | 0.6 | 17 | 6 | CQ625767 | Sequence |
| C | 160 | 14 | 0.6 | 27 | 6 | BD011821 | BD011821 Liver fun | | C | 233 | 13 | 0.6 | 17 | 6 | CQ625768 | Sequence |
| C | 161 | 14 | 0.6 | 28 | 6 | AX277381 | AX277381 Sequence | | C | 234 | 13 | 0.6 | 17 | 6 | CQ625769 | Sequence |
| C | 162 | 14 | 0.6 | 28 | 6 | AR170350 | AR170350 Sequence | | C | 235 | 13 | 0.6 | 17 | 6 | CQ625770 | Sequence |
| C | 163 | 14 | 0.6 | 29 | 6 | BD178865 | BD178865 Novel use | | C | 236 | 13 | 0.6 | 17 | 6 | I51720 | Sequence 41 |
| C | 164 | 14 | 0.6 | 29 | 6 | BD198119 | BD198119 Method an | | C | 237 | 13 | 0.6 | 17 | 6 | I51721 | Sequence 42 |

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|-------|----|-----|----|----|---------------------|---------------------|-------|----|-----|----|----|--------------------|
| 384 | 13 | 0.6 | 20 | 6 | CS063757 Sequence | CS063757 Sequence | 457 | 13 | 0.6 | 22 | 6 | AR034120 Sequence |
| c 385 | 13 | 0.6 | 20 | 6 | CS080287 Sequence | CS080287 Sequence | 458 | 13 | 0.6 | 22 | 6 | AR038917 Sequence |
| c 386 | 13 | 0.6 | 20 | 6 | E35998 Method for | E35998 Method for | c 459 | 13 | 0.6 | 22 | 6 | AR059535 Sequence |
| c 387 | 13 | 0.6 | 20 | 6 | I18340 Sequence 13 | I18340 Sequence 13 | c 460 | 13 | 0.6 | 22 | 6 | AR141347 Sequence |
| c 388 | 13 | 0.6 | 20 | 6 | I23915 Sequence 17 | I23915 Sequence 17 | c 461 | 13 | 0.6 | 22 | 6 | AR169501 Sequence |
| c 389 | 13 | 0.6 | 20 | 6 | I79799 Sequence 95 | I79799 Sequence 95 | c 462 | 13 | 0.6 | 22 | 6 | BD087250 Hyaluron |
| c 390 | 13 | 0.6 | 20 | 6 | AR198318 Sequence | AR198318 Sequence | c 463 | 13 | 0.6 | 22 | 6 | BD232872 Diagnosti |
| c 391 | 13 | 0.6 | 20 | 6 | AR201013 Sequence | AR201013 Sequence | c 464 | 13 | 0.6 | 22 | 6 | CS104914 Sequence |
| c 392 | 13 | 0.6 | 20 | 6 | AR215758 Sequence | AR215758 Sequence | c 465 | 13 | 0.6 | 22 | 6 | CS113628 Sequence |
| c 393 | 13 | 0.6 | 20 | 6 | AR260462 Sequence | AR260462 Sequence | c 466 | 13 | 0.6 | 22 | 6 | AR193523 Sequence |
| c 394 | 13 | 0.6 | 20 | 6 | AR281458 Sequence | AR281458 Sequence | c 467 | 13 | 0.6 | 22 | 6 | AR224993 Sequence |
| c 395 | 13 | 0.6 | 20 | 6 | AR298716 Sequence | AR298716 Sequence | c 468 | 13 | 0.6 | 22 | 6 | AR233425 Sequence |
| c 396 | 13 | 0.6 | 20 | 6 | AR299474 Sequence | AR299474 Sequence | c 469 | 13 | 0.6 | 22 | 6 | AR233505 Sequence |
| c 397 | 13 | 0.6 | 20 | 6 | AR311409 Sequence | AR311409 Sequence | c 470 | 13 | 0.6 | 22 | 6 | AR303847 Sequence |
| c 398 | 13 | 0.6 | 20 | 6 | AR313528 Sequence | AR313528 Sequence | c 471 | 13 | 0.6 | 22 | 6 | AR349810 Sequence |
| c 399 | 13 | 0.6 | 20 | 6 | AR338214 Sequence | AR338214 Sequence | c 472 | 13 | 0.6 | 22 | 6 | AR616920 Sequence |
| c 400 | 13 | 0.6 | 20 | 6 | AR437330 Sequence | AR437330 Sequence | c 473 | 13 | 0.6 | 22 | 6 | AX039719 Sequence |
| c 401 | 13 | 0.6 | 20 | 6 | AR492657 Sequence | AR492657 Sequence | c 474 | 13 | 0.6 | 22 | 6 | AX045433 Sequence |
| c 402 | 13 | 0.6 | 20 | 6 | AR565345 Sequence | AR565345 Sequence | c 475 | 13 | 0.6 | 22 | 6 | AX259649 Sequence |
| c 403 | 13 | 0.6 | 20 | 6 | AR637323 Sequence | AR637323 Sequence | c 476 | 13 | 0.6 | 22 | 6 | AX259650 Sequence |
| c 404 | 13 | 0.6 | 20 | 6 | AR648970 Sequence | AR648970 Sequence | c 477 | 13 | 0.6 | 22 | 6 | AX259651 Sequence |
| c 405 | 13 | 0.6 | 20 | 6 | AR658034 Sequence | AR658034 Sequence | c 478 | 13 | 0.6 | 22 | 6 | AX259652 Sequence |
| c 406 | 13 | 0.6 | 20 | 6 | AR670014 Sequence | AR670014 Sequence | c 479 | 13 | 0.6 | 22 | 6 | AX259653 Sequence |
| c 407 | 13 | 0.6 | 20 | 6 | AX022493 Sequence | AX022493 Sequence | c 480 | 13 | 0.6 | 22 | 6 | AX259667 Sequence |
| c 408 | 13 | 0.6 | 20 | 6 | AX287113 Sequence | AX287113 Sequence | c 481 | 13 | 0.6 | 22 | 6 | AX298937 Sequence |
| c 409 | 13 | 0.6 | 20 | 6 | AX294780 Sequence | AX294780 Sequence | c 482 | 13 | 0.6 | 22 | 6 | AX462808 Sequence |
| c 410 | 13 | 0.6 | 20 | 6 | AX295981 Sequence | AX295981 Sequence | c 483 | 13 | 0.6 | 22 | 6 | AX497429 Sequence |
| c 411 | 13 | 0.6 | 20 | 6 | AX297393 Sequence | AX297393 Sequence | c 484 | 13 | 0.6 | 22 | 6 | AX686740 Sequence |
| c 412 | 13 | 0.6 | 20 | 6 | AX323431 Sequence | AX323431 Sequence | c 485 | 13 | 0.6 | 22 | 6 | AX828116 Sequence |
| c 413 | 13 | 0.6 | 20 | 6 | AX391895 Sequence | AX391895 Sequence | c 486 | 13 | 0.6 | 22 | 6 | BD009042 Mitochond |
| c 414 | 13 | 0.6 | 20 | 6 | AX398988 Sequence | AX398988 Sequence | c 487 | 13 | 0.6 | 22 | 11 | AB213724 Synthetic |
| c 415 | 13 | 0.6 | 20 | 6 | AX488039 Sequence | AX488039 Sequence | c 488 | 13 | 0.6 | 23 | 6 | BD141563 Method fo |
| c 416 | 13 | 0.6 | 20 | 6 | AX488111 Sequence | AX488111 Sequence | c 489 | 13 | 0.6 | 23 | 6 | BD176059 Method fo |
| c 417 | 13 | 0.6 | 20 | 6 | AX686573 Sequence | AX686573 Sequence | c 490 | 13 | 0.6 | 23 | 6 | CQ771471 Sequence |
| c 418 | 13 | 0.6 | 20 | 6 | AX713186 Sequence | AX713186 Sequence | c 491 | 13 | 0.6 | 23 | 6 | CQ903138 Sequence |
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| c 420 | 13 | 0.6 | 20 | 6 | AX743216 Sequence | AX743216 Sequence | c 493 | 13 | 0.6 | 23 | 6 | AX015643 Sequence |
| c 421 | 13 | 0.6 | 20 | 6 | AX804700 Sequence | AX804700 Sequence | c 494 | 13 | 0.6 | 23 | 6 | AX015646 Sequence |
| c 422 | 13 | 0.6 | 20 | 11 | AB068381 Synthetic | AB068381 Synthetic | c 495 | 13 | 0.6 | 23 | 6 | AX020579 Sequence |
| c 423 | 13 | 0.6 | 21 | 6 | A04902 Nucleotide | A04902 Nucleotide | c 496 | 13 | 0.6 | 23 | 6 | AX384654 Sequence |
| c 424 | 13 | 0.6 | 21 | 6 | A24804 Artificial D | A24804 Artificial D | c 497 | 13 | 0.6 | 24 | 6 | A30834 Oligonucleo |
| c 425 | 13 | 0.6 | 21 | 6 | AR011684 Sequence | AR011684 Sequence | c 498 | 13 | 0.6 | 24 | 6 | AR025322 Sequence |
| c 426 | 13 | 0.6 | 21 | 6 | AR087531 Sequence | AR087531 Sequence | c 499 | 13 | 0.6 | 24 | 6 | AR044644 Sequence |
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| c 431 | 13 | 0.6 | 21 | 6 | BD233803 Polynucle | BD233803 Polynucle | c 504 | 13 | 0.6 | 24 | 6 | AR110436 Sequence |
| c 432 | 13 | 0.6 | 21 | 6 | CQ753117 Sequence | CQ753117 Sequence | c 505 | 13 | 0.6 | 24 | 6 | AR168790 Sequence |
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| c 434 | 13 | 0.6 | 21 | 6 | CQ984441 Sequence | CQ984441 Sequence | c 507 | 13 | 0.6 | 24 | 6 | E36657 DNA and pla |
| c 435 | 13 | 0.6 | 21 | 6 | CQ984442 Sequence | CQ984442 Sequence | c 508 | 13 | 0.6 | 24 | 6 | E39905 High-affini |
| c 436 | 13 | 0.6 | 21 | 6 | CQ984443 Sequence | CQ984443 Sequence | c 509 | 13 | 0.6 | 24 | 6 | E39906 High-affini |
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| c 438 | 13 | 0.6 | 21 | 6 | CS055718 Sequence | CS055718 Sequence | c 511 | 13 | 0.6 | 24 | 6 | E43932 II-6 recept |
| c 439 | 13 | 0.6 | 21 | 6 | CS068931 Sequence | CS068931 Sequence | c 512 | 13 | 0.6 | 24 | 6 | I27784 Sequence 16 |
| c 440 | 13 | 0.6 | 21 | 6 | I29105 Sequence 26 | I29105 Sequence 26 | c 513 | 13 | 0.6 | 24 | 6 | I28237 Sequence 13 |
| c 441 | 13 | 0.6 | 21 | 6 | I34852 Sequence 45 | I34852 Sequence 45 | c 514 | 13 | 0.6 | 24 | 6 | I64407 Sequence 23 |
| c 442 | 13 | 0.6 | 21 | 6 | I73494 Sequence 7 | I73494 Sequence 7 | c 515 | 13 | 0.6 | 24 | 6 | I86333 Sequence 68 |
| c 443 | 13 | 0.6 | 21 | 6 | AR194028 Sequence | AR194028 Sequence | c 516 | 13 | 0.6 | 24 | 6 | AR195000 Sequence |
| c 444 | 13 | 0.6 | 21 | 6 | AR228170 Sequence | AR228170 Sequence | c 517 | 13 | 0.6 | 24 | 6 | AR200259 Sequence |
| c 445 | 13 | 0.6 | 21 | 6 | AR281757 Sequence | AR281757 Sequence | c 518 | 13 | 0.6 | 24 | 6 | AR236547 Sequence |
| c 446 | 13 | 0.6 | 21 | 6 | AR298690 Sequence | AR298690 Sequence | c 519 | 13 | 0.6 | 24 | 6 | AR236548 Sequence |
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| c 448 | 13 | 0.6 | 21 | 6 | AX350236 Sequence | AX350236 Sequence | c 521 | 13 | 0.6 | 24 | 6 | AR267708 Sequence |
| c 449 | 13 | 0.6 | 21 | 6 | AX572964 Sequence | AX572964 Sequence | c 522 | 13 | 0.6 | 24 | 6 | AR279191 Sequence |
| c 450 | 13 | 0.6 | 21 | 6 | AX956363 Sequence | AX956363 Sequence | c 523 | 13 | 0.6 | 24 | 6 | AR360718 Sequence |
| c 451 | 13 | 0.6 | 22 | 6 | A01313 H.sapiens r | A01313 H.sapiens r | c 524 | 13 | 0.6 | 24 | 6 | AR364575 Sequence |
| c 452 | 13 | 0.6 | 22 | 6 | A01314 H.sapiens r | A01314 H.sapiens r | c 525 | 13 | 0.6 | 24 | 6 | AR534681 Sequence |
| c 453 | 13 | 0.6 | 22 | 6 | A44397 Sequence 27 | A44397 Sequence 27 | c 526 | 13 | 0.6 | 24 | 6 | AR576365 Sequence |
| c 454 | 13 | 0.6 | 22 | 6 | A46761 Sequence 1 | A46761 Sequence 1 | c 527 | 13 | 0.6 | 24 | 6 | AR652471 Sequence |
| c 455 | 13 | 0.6 | 22 | 6 | AR016201 Sequence | AR016201 Sequence | c 528 | 13 | 0.6 | 24 | 6 | AX004271 Sequence |
| c 456 | 13 | 0.6 | 22 | 6 | AR019199 Sequence | AR019199 Sequence | c 529 | 13 | 0.6 | 24 | 6 | AX290147 Sequence |

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| C 827 | 13 | 0.6 | 30 | 6 | AR146094 | AR146094 Sequence | C 900 | 12 | 0.5 | 15 | 6 | AR615905 | AR615905 Sequence |
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| C 855 | 12 | 0.5 | 13 | 6 | AR285735 | AR285735 Sequence | C 928 | 12 | 0.5 | 16 | 6 | AX572234 | AX572234 Sequence |
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| C 881 | 12 | 0.5 | 15 | 6 | AR113624 | AR113624 Sequence | C 954 | 12 | 0.5 | 17 | 6 | BD255437 | BD255437 Regulatio |
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ALIGNMENTS

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LOCUS      AX769408          26 bp      DNA          linear      PAT 02-JUL-2003
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ACCESSION  AX769408
VERSION     AX769408.1  GI:32437226
KEYWORDS    .
SOURCE      synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Guo, X., Fernandes, E., Li, L., Kekuda, R., Liu, Y., Leite, M.,
            Spytek, K.A., Ji, W., Casman, S.J., Boldog, F.L., Patturajan, M.,
            Vernet, C.A., Ballinger, R.A., Malyankar, U.M., Tchernev, V.T.,
            Blalock, A.D., Gubev, V.Y., Rastelli, L., Mezes, P.D., Ellerman, K.,
            Heyes, M., Herrmann, J.L., Shimkets, R.A., Iolme, N., Pena, C.E.,
            Shenoy, S.G., Taupier, R.J., Gerlach, V. and Gorman, L.
TITLE       Human proteins and nucleic acids encoding same
JOURNAL     Patent: WO 02098917-A S25 12-DEC-2002;
            Curagen Corporation (US)
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QY 739 CTTTCCTCCCTGAGGAAGTCAATT 764
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Db 1 CTTTCCTCCCTGAGGAAGTCAATT 26

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RESULT 2
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DEFINITION Sequence 11 from Patent WO2004031410.
ACCESSION  CQ800838
VERSION     CQ800838.1  GI:47057632
KEYWORDS    .
SOURCE      synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Nakamura, Y. and Katagiri, T.
TITLE       Method for diagnosing testicular seminomas
JOURNAL     Patent: WO 2004031410-A 11 15-APR-2004;
            Oncotherapy Science, Inc. (JP); Japan as represented by the
            president of the university of Tokyo (JP)
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Best Local Similarity 100.0%; Pred. No. 18;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 CACACATGCAATGTCGTGTG 22

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LOCUS      CQ800839          22 bp      DNA          linear      PAT 05-MAY-2004
DEFINITION Sequence 12 from Patent WO2004031410.
ACCESSION  CQ800839
VERSION     CQ800839.1  GI:47057633
KEYWORDS    .
SOURCE      synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Nakamura, Y. and Katagiri, T.
TITLE       Method for diagnosing testicular seminomas
JOURNAL     Patent: WO 2004031410-A 12 15-APR-2004;
            Oncotherapy Science, Inc. (JP); Japan as represented by the
            president of the university of Tokyo (JP)
FEATURES    Location/Qualifiers
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DEFINITION Sequence 524 from Patent WO02098917.
ACCESSION AX769407
VERSION AX769407.1 GI:32437225
KEYWORDS
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ORGANISM
REFERENCE
AUTHORS Guo,X., Fernandes,E., Li,L., Kekuda,R., Liu,Y., Leite,M.,
Spytek,K.A., Ji,W., Casman,S.J., Boldog,F.L., Patturajan,M.,
Vernet,C.A., Ballinger,R.A., Malyankar,U.M., Tchernev,V.T.,
Blalock,A.D., Gusev,V.Y., Rastelli,L., Mezes,P.D., Ellerman,K.,
Heyes,M., Herrmann,J.L., Shimkets,R.A., Iolme,N., Pena,C.E.,
Shenoy,S.G., Taupier,R.J., Gerlach,V. and Gorman,L.
TITLE Human proteins and nucleic acids encoding same
JOURNAL Patent: WO 02098917-A 524 12-DEC-2002;
Curagen Corporation (US)
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Best Local Similarity 100.0%; Pred. No. 18;
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Db 1 GCTGCTTATCTTTCTGAAC 22
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LOCUS
DEFINITION Sequence 526 from Patent WO02098917.
ACCESSION AX769409
VERSION AX769409.1 GI:32437227
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Guo,X., Fernandes,E., Li,L., Kekuda,R., Liu,Y., Leite,M.,
Spytek,K.A., Ji,W., Casman,S.J., Boldog,F.L., Patturajan,M.,
Vernet,C.A., Ballinger,R.A., Malyankar,U.M., Tchernev,V.T.,
Blalock,A.D., Gusev,V.Y., Rastelli,L., Mezes,P.D., Ellerman,K.,
Heyes,M., Herrmann,J.L., Shimkets,R.A., Iolme,N., Pena,C.E.,
Shenoy,S.G., Taupier,R.J., Gerlach,V. and Gorman,L.
TITLE Human proteins and nucleic acids encoding same
JOURNAL Patent: WO 02098917-A 526 12-DEC-2002;
Curagen Corporation (US)
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Db 22 ACGAAGAAGATCAAGCTGAGTG 1
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LOCUS
DEFINITION Sequence 5 from Patent WO2004031414.
ACCESSION CQ799122
VERSION CQ799122.1 GI:46848096
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Nakamura,Y., Katagiri,T., Nakagawa,H. and Nakatsuru,S.
TITLE Method for diagnosing prostate cancer
JOURNAL Patent: WO 2004031414-A 5 15-APR-2004;
Oncotherapy Science, Inc. (JP); Japan as represented by the
president of the university of Tokyo (JP)
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Db 1 GGTGCTCTTATCTCTTCT 20
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CQ799123/c
LOCUS
DEFINITION Sequence 6 from Patent WO2004031414.
ACCESSION CQ799123
VERSION CQ799123.1 GI:46848097
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Nakamura,Y., Katagiri,T., Nakagawa,H. and Nakatsuru,S.
TITLE Method for diagnosing prostate cancer
JOURNAL Patent: WO 2004031414-A 6 15-APR-2004;
Oncotherapy Science, Inc. (JP); Japan as represented by the
president of the university of Tokyo (JP)
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/note="Artificial synthesised primer sequence for RT-PCR"
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Db 20 AGAGGAATAAAAGGGAAG 1
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LOCUS
DEFINITION Sequence 41 from patent US 6165728.
ACCESSION AR122487
VERSION AR122487.1 GI:14106804
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unknown.

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REFERENCE 1 (bases 1 to 20)
AUTHORS Ward,D.T. and Cowsert,L.M.
TITLE Antisense modulation of NCK-2 expression
JOURNAL Patent: US 6165728-A 41 26-DEC-2000;
FEATURES Location/Qualifiers
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QY 1694 GAGTACGCGCCCAATGG 1710
Db 18 GAGTACGCGCCCAATGG 2

RESULT 9
LOCUS CS093550 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 684 from Patent WO2005045036.
ACCESSION CS093550
VERSION CS093550.1 GI:66951073
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Mcswiggen,J.
TITLE RNA interference mediated inhibition of hairless (hr) gene
JOURNAL expression using short interfering nucleic acid (siNA)
        Patent: WO 2005045036-A 684 19-MAY-2005;
        Sirna Therapeutics, Inc. (US)
FEATURES Location/Qualifiers
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QY 1653 TGCCTTCCTACCTCTTC 1669
Db 1 TGCCTTCCTACCTCTTC 17

RESULT 10
LOCUS AR252672/c 22 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 440 from patent US 6478825.
ACCESSION AR252672
VERSION AR252672.1 GI:27300580
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 22)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLE Implant, method of making same and use of the implant for the
        treatment of bone defects
JOURNAL Patent: US 6478825-A 440 12-NOV-2002;
        Osteotech, Inc.; Eatontown, NJ
FEATURES Location/Qualifiers
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        /organism="unknown"

/mol_type="genomic DNA"

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Best Local Similarity 100.0%; Pred. No. 3.1e+04;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1034 TTCTACATGGCTGCTG 1049
Db 18 TTCTACATGGCTGCTG 3

RESULT 11
LOCUS AX403553/c 22 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 440 from Patent WO0073454.
ACCESSION AX403553
VERSION AX403553.1 GI:21437026
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Ashkenazi,A.J., Baker,K.P., Botstein,D., Deenoyers,L., Eaton,D.,
        Ferrara,N., Gerber,H., Gerritsen,M., Goddard,A., Godowski,P.,
        Grimaldi,C.J., Gurney,A.L., Kljavin,I., Napier,M.A., Pan,J.,
        Paoni,N.F., Roy,M., Stewart,T.A., Tumas,D., Watanabe,C.K.,
        Williams,P., Wood,W.I. and Zhang,Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
        the same
JOURNAL Patent: WO 0073454-A 440 07-DEC-2000;
        Genentech Inc. (US)
FEATURES Location/Qualifiers
source 1..22
        /organism="synthetic construct"
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        /db_xref="taxon:32630"
        /note="Synthetic oligonucleotide probe"

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LOCUS CQ798130 23 bp DNA linear PAT 20-APR-2004
DEFINITION Sequence 37 from Patent WO2004029287.
ACCESSION CQ798130
VERSION CQ798130.1 GI:46426542
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Guelly,C., Buck,C. and Zatloukal,K.
TITLE Polypeptides and nucleic acids encoding these and their use for the
        prevention, diagnosis or treatment of liver disorders and
        epithelial cancer
JOURNAL Patent: WO 2004029287-A 37 08-APR-2004;
        Oridis Biomed Forschungs- und Entwicklungs GmbH (AT)
FEATURES Location/Qualifiers
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RESULT 13

CS093551
LOCUS 23 bp RNA linear PAT 03-JUN-2005
DEFINITION Sequence 685 from Patent WO2005045036.
ACCESSION CS093551
VERSION CS093551.1 GI:66951074
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS McSwiggen, J.
TITLE RNA interference mediated inhibition of hairless (hr) gene
JOURNAL expression using short interfering nucleic acid (siNA)
Patent: WO 2005045036-A 685 19-MAY-2005;
SiRNA Therapeutics, Inc. (US)
FEATURES
Location/Qualifiers
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/mol_type="unassigned RNA"
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ORIGIN

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QY 1654 GCCTTCCTACCTCTTC 1669
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RESULT 14

AR059920
LOCUS 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 29 from patent US 5840529.
ACCESSION AR059920
VERSION AR059920.1 GI:5986370
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 24)
AUTHORS Seidah, N.G., Day, R. and Chretien, M.
TITLE Mammalian pro-hormone convertase
JOURNAL Patent: US 5840529-A 29 24-NOV-1998;
FEATURES
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Best Local Similarity 100.0%; Pred. No. 3e+04;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 6 TGCCGGTGTGGCCTTC 21

RESULT 15

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LOCUS 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 30 from patent US 5840529.
ACCESSION AR059921
VERSION AR059921.1 GI:5986371
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 24)
AUTHORS Seidah, N.G., Day, R. and Chretien, M.
TITLE Mammalian pro-hormone convertase
JOURNAL Patent: US 5840529-A 30 24-NOV-1998;
FEATURES
Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 3e+04;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 6 TGCCGGTGTGGCCTTC 21

RESULT 16

CQ862656
LOCUS 25 bp DNA linear PAT 10-SEP-2004
DEFINITION Sequence 1289 from Patent WO2004072265.
ACCESSION CQ862656
VERSION CQ862656.1 GI:51983645
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Burczynski, M., Twine, N., Dörner, A.J. and Trepicchio, W.L.
TITLE METHODS FOR MONITORING DRUG ACTIVITIES IN VIVO /i
JOURNAL Patent: WO 2004072265-A 1289 26-AUG-2004;
Wyeeth (US); Burczynski, Michael E. (US); Twine, Natalie C. (US);
Dörner, Andrew J. (US); Trepicchio, William L. (US)
FEATURES
Location/Qualifiers
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QY 367 CATGGACCGCTTTGGC 382
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Db 9 CATGGACCGCTTTGGC 24

RESULT 17

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LOCUS 30 bp DNA linear PAT 31-JAN-2002
DEFINITION Antihuman Fas humanized antibody-containing antirheumatic.
ACCESSION E40787
VERSION E40787.1 GI:18627376
KEYWORDS JP 2000154149-A/158.
SOURCE synthetic construct
ORGANISM synthetic construct

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Gapop_60.0 , Gapext 60.0

Searched: 4996997 seqs, 332346308 residues

Word size : 0

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Maximum DB seq length: 30

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- 14: Geneseqn2005s.*

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SUMMARIES

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| 14 | 20 | 0.9 | 20 | 12 | Adm97687 Human pro |
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| 17 | 17 | 0.7 | 20 | 4 | Aac92680 Human Nck |
| 18 | 17 | 0.7 | 23 | 14 | Aea03789 Hairless |
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| 96 | 15 | 0.6 | 19 | 11 | Ado15177 | Human PDG | 169 | 14 | 0.6 | 15 | 4 | Aaf53612 | IGF-I oli |
| 97 | 15 | 0.6 | 19 | 13 | Adt98165 | Rat acyl- | 170 | 14 | 0.6 | 15 | 4 | Aaf53613 | IGF-I oli |
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| c 127 | 15 | 0.6 | 23 | 2 | AAf61651 | Hormone r | c 200 | 14 | 0.6 | 19 | 12 | ADQ62168 | Anti-TMPR |
| c 128 | 15 | 0.6 | 23 | 4 | ADU10335 | Human hae | 201 | 14 | 0.6 | 19 | 12 | ADQ62168 | Anti-TMPR |
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| 147 | 15 | 0.6 | 27 | 5 | AAc91073 | Primer ZC | 220 | 14 | 0.6 | 20 | 6 | ABe76737 | Human del |
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| 151 | 15 | 0.6 | 27 | 8 | ABX13795 | zCTGF4 tr | c 224 | 14 | 0.6 | 20 | 6 | ABQ82319 | Human ALS |
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| 154 | 15 | 0.6 | 27 | 12 | ADJ32783 | Human gro | c 227 | 14 | 0.6 | 20 | 10 | ADC49218 | Hyaluroni |
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| c 156 | 15 | 0.6 | 27 | 13 | ADW88215 | Human cys | c 229 | 14 | 0.6 | 20 | 10 | ADf88489 | Single nu |
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| c 163 | 15 | 0.6 | 29 | 5 | ADV03047 | Human BAC | c 236 | 14 | 0.6 | 20 | 12 | ADP11001 | Murine SA |
| 164 | 15 | 0.6 | 29 | 6 | AAx17232 | DNA sequ | c 237 | 14 | 0.6 | 20 | 12 | ADP43741 | Human fib |
| c 165 | 15 | 0.6 | 30 | 2 | AAx19056 | Human PPA | c 238 | 14 | 0.6 | 20 | 12 | ADP43777 | Human fib |

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| C 241 | 14 | 0.6 | 20 | 12 | ADQ29564 | Adq29564 Human TNF | 314 | 14 | 0.6 | 25 | 9 | ACI53634 | ACI53634 Human mic |
| C 242 | 14 | 0.6 | 20 | 13 | ADR03080 | Adr03080 Antisense | 315 | 14 | 0.6 | 25 | 9 | ACK06956 | ACK06956 Human mic |
| C 243 | 14 | 0.6 | 20 | 13 | ADR96847 | Adr96847 DRD1 mut | 316 | 14 | 0.6 | 25 | 9 | ACI31477 | ACI31477 Human mic |
| C 244 | 14 | 0.6 | 20 | 14 | ADW50365 | Adw50365 Human B7- | 317 | 14 | 0.6 | 25 | 9 | ACI18324 | ACI18324 Human mic |
| C 245 | 14 | 0.6 | 20 | 14 | ADY60517 | Ady60517 Antisense | 318 | 14 | 0.6 | 25 | 9 | ACI19549 | ACI19549 Human mic |
| C 246 | 14 | 0.6 | 20 | 14 | ADZ07993 | Adz07993 PDE7A ant | 319 | 14 | 0.6 | 25 | 9 | ACK24490 | ACK24490 Human mic |
| C 247 | 14 | 0.6 | 21 | 2 | AAV60939 | Aav60939 Nucleotid | 320 | 14 | 0.6 | 25 | 12 | ADL16742 | AdL16742 Granulocy |
| C 248 | 14 | 0.6 | 21 | 2 | AAV27034 | Aav27034 Human IGF | 321 | 14 | 0.6 | 25 | 12 | ADP13934 | Adp13934 Renal cel |
| C 249 | 14 | 0.6 | 21 | 4 | AAx00347 | Aax00347 Human leu | 322 | 14 | 0.6 | 25 | 12 | ADP13839 | Adp13839 Renal cel |
| C 250 | 14 | 0.6 | 21 | 4 | AAH62238 | Aah62238 Glycine r | 323 | 14 | 0.6 | 25 | 12 | ADP14348 | Adp14348 Renal cel |
| C 251 | 14 | 0.6 | 21 | 6 | ABS97793 | Abs97793 Human NAD | 324 | 14 | 0.6 | 25 | 12 | ADP13935 | Adp13935 Renal cel |
| C 252 | 14 | 0.6 | 21 | 12 | ADN14312 | Adn14312 PCR prime | 325 | 14 | 0.6 | 25 | 12 | ADP16864 | Adp16864 Renal cel |
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| C 254 | 14 | 0.6 | 21 | 13 | ADU31826 | Adu31826 Knock-dow | 327 | 14 | 0.6 | 25 | 13 | ADRS5220 | Adr5220 Drug ther |
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| C 263 | 14 | 0.6 | 22 | 12 | ADQ59764 | Adq59764 Intelligi | 336 | 14 | 0.6 | 27 | 2 | AAV10673 | Aav10673 Mouse Fas |
| C 264 | 14 | 0.6 | 22 | 13 | ADR96929 | Adr96929 HTR1A mut | 337 | 14 | 0.6 | 27 | 2 | AAx21890 | Aax21890 Primer fo |
| C 265 | 14 | 0.6 | 22 | 14 | AEA04194 | Aea04194 Hairless | 338 | 14 | 0.6 | 27 | 3 | AAx224351 | Aax224351 Human ICA |
| C 266 | 14 | 0.6 | 22 | 14 | AEA51726 | Aea51726 Prostate | 339 | 14 | 0.6 | 27 | 3 | AAx97179 | Aax97179 Oligonucl |
| C 267 | 14 | 0.6 | 23 | 2 | AAQL0627 | Aaql0627 HLA Claes | 340 | 14 | 0.6 | 28 | 2 | ABA98893 | AbA98893 DNA seque |
| C 268 | 14 | 0.6 | 23 | 2 | AAQL0632 | Aaql0632 HLA Claes | 341 | 14 | 0.6 | 28 | 2 | AAA08325 | Aaa08325 ICAM-R mu |
| C 269 | 14 | 0.6 | 23 | 3 | AAZ00992 | Aaz00992 PCR prime | 342 | 14 | 0.6 | 27 | 4 | AAc91958 | Aac91958 Human ICA |
| C 270 | 14 | 0.6 | 23 | 3 | AAc80353 | Aac80353 Forward p | 343 | 14 | 0.6 | 27 | 4 | AAc87662 | Aac87662 PCR prime |
| C 271 | 14 | 0.6 | 23 | 6 | ABL39562 | Ab139562 Human can | 344 | 14 | 0.6 | 27 | 6 | ABK09368 | Abk09368 Monoclonal |
| C 272 | 14 | 0.6 | 23 | 6 | ADL17594 | Adl17594 Labelled | 345 | 14 | 0.6 | 27 | 6 | ABQ75776 | Abq75776 Murine ca |
| C 273 | 14 | 0.6 | 23 | 6 | ADL17582 | Adl17582 Labelled | 346 | 14 | 0.6 | 27 | 6 | ABQ75776 | Abq75776 Murine ca |
| C 274 | 14 | 0.6 | 23 | 6 | ADL17597 | Adl17597 Labelled | 347 | 14 | 0.6 | 27 | 6 | ABL99408 | Ab199408 Left PCR |
| C 275 | 14 | 0.6 | 23 | 8 | ABZ80987 | Abz80987 Human vit | 348 | 14 | 0.6 | 27 | 10 | ADG25757 | Adg25757 Human ICA |
| C 276 | 14 | 0.6 | 23 | 11 | ADZ43676 | Adz43676 PCR prime | 349 | 14 | 0.6 | 28 | 2 | AAAT03707 | Aat03707 Cotton UD |
| C 277 | 14 | 0.6 | 23 | 11 | ADG09445 | Adg09445 TNF-alpha | 350 | 14 | 0.6 | 28 | 4 | AAQ07465 | Aaq07465 HD-Zip eu |
| C 278 | 14 | 0.6 | 23 | 12 | ADH72351 | Adh72351 Human pro | 351 | 14 | 0.6 | 28 | 4 | AAI70217 | Aai70217 Human OXg |
| C 279 | 14 | 0.6 | 23 | 12 | ADH72348 | Adh72348 Human pro | 352 | 14 | 0.6 | 29 | 2 | AAV61440 | Aav61440 Mouse Cio |
| C 280 | 14 | 0.6 | 23 | 12 | ADN42682 | Adn42682 Human NOV | 353 | 14 | 0.6 | 29 | 2 | AAA22133 | Aaa22133 Integrin |
| C 281 | 14 | 0.6 | 23 | 12 | ADN42670 | Adn42670 Human NOV | 354 | 14 | 0.6 | 29 | 2 | AAA17919 | Aaa17919 Human TIE |
| C 282 | 14 | 0.6 | 23 | 12 | ADN42685 | Adn42685 Human NOV | 355 | 14 | 0.6 | 29 | 2 | AAV92992 | Aav92992 Human B-r |
| C 283 | 14 | 0.6 | 23 | 14 | ADZ87147 | Adz87147 Human OTO | 356 | 14 | 0.6 | 29 | 3 | AAx05197 | Aax05197 s' juncti |
| C 284 | 14 | 0.6 | 23 | 14 | AEA04146 | Aea04146 Hairless | 357 | 14 | 0.6 | 29 | 3 | AAA04328 | Aaa04328 Polymorph |
| C 285 | 14 | 0.6 | 24 | 2 | AAAT09861 | Aat09861 Neisseria | 358 | 14 | 0.6 | 29 | 3 | AAA07726 | Aaa07726 Human lys |
| C 286 | 14 | 0.6 | 24 | 2 | AAAT11180 | Aat11180 Neisseria | 359 | 14 | 0.6 | 29 | 3 | AAAF01568 | Aaf01568 Hammerha |
| C 287 | 14 | 0.6 | 24 | 2 | AAAT73250 | Aat73250 Probe to | 360 | 14 | 0.6 | 29 | 4 | AAH90989 | Aah90989 Human inf |
| C 288 | 14 | 0.6 | 24 | 3 | AAx56470 | Aax56470 Locked nu | 361 | 14 | 0.6 | 29 | 5 | ADM89776 | Adm89776 Human PTP |
| C 289 | 14 | 0.6 | 24 | 3 | AAAO7381 | Aao7381 PCR prime | 362 | 14 | 0.6 | 29 | 5 | ADV02480 | Adv02480 Human BAC |
| C 290 | 14 | 0.6 | 24 | 3 | AAc80354 | Aac80354 Forward p | 363 | 14 | 0.6 | 29 | 8 | ABZ20607 | Abz20607 Cytokine |
| C 291 | 14 | 0.6 | 24 | 6 | ABK47587 | Abk47587 Human tro | 364 | 14 | 0.6 | 29 | 13 | ADS88676 | Ads88676 PCR prime |
| C 292 | 14 | 0.6 | 24 | 10 | ACC49808 | Acc49808 Human pro | 365 | 14 | 0.6 | 29 | 13 | ADS88677 | Ads88677 PCR prime |
| C 293 | 14 | 0.6 | 24 | 10 | ACC49809 | Acc49809 Human pro | 366 | 14 | 0.6 | 29 | 14 | ADQ99920 | Adq99920 PCR prime |
| C 294 | 14 | 0.6 | 24 | 11 | ADL23536 | Adl23536 Versinia | 367 | 14 | 0.6 | 30 | 2 | AAQ080608 | Aaq080608 Primer SW |
| C 295 | 14 | 0.6 | 24 | 12 | ADJ92111 | Adj92111 PCR prime | 368 | 14 | 0.6 | 30 | 2 | AAV02192 | Aav02192 Human foe |
| C 296 | 14 | 0.6 | 24 | 12 | ADJ92110 | Adj92110 PCR prime | 369 | 14 | 0.6 | 30 | 2 | AAV02192 | Aav02192 Type C le |
| C 297 | 14 | 0.6 | 24 | 12 | ADM99382 | Adm99382 Y. entero | 370 | 14 | 0.6 | 30 | 3 | AAA53982 | Aaa53982 Primer us |
| C 298 | 14 | 0.6 | 24 | 14 | ADV34780 | Adv34780 Plectin g | 371 | 14 | 0.6 | 30 | 4 | AAAF01469 | Aaf01469 HD-Zip eu |
| C 299 | 14 | 0.6 | 24 | 14 | ADV34781 | Adv34781 Plectin g | 372 | 14 | 0.6 | 30 | 4 | AAAF01469 | Aaf01469 T. thermo |
| C 300 | 14 | 0.6 | 24 | 14 | ADV67481 | Adv67481 Primer fo | 373 | 14 | 0.6 | 30 | 5 | AAH48713 | Aah48713 T. thermo |
| C 301 | 14 | 0.6 | 24 | 14 | ABE44362 | AbE44362 Novel dsR | 374 | 14 | 0.6 | 30 | 6 | ABL31833 | AbL31833 Human CYP |
| C 302 | 14 | 0.6 | 25 | 3 | AAc96621 | Aac96621 HLA DRB34 | 375 | 14 | 0.6 | 30 | 6 | AAAD46390 | Aad46390 S. typhim |
| C 303 | 14 | 0.6 | 25 | 3 | AAc96672 | Aac96672 HLA HLA-A | 376 | 14 | 0.6 | 30 | 10 | ADF29029 | Adf29029 T. thermo |
| C 304 | 14 | 0.6 | 25 | 3 | AAc96879 | Aac96879 HLA HLA-C | 377 | 14 | 0.6 | 30 | 10 | ADF76186 | Adf76186 Mutagenic |
| C 305 | 14 | 0.6 | 25 | 3 | AAc95820 | Aac95820 HLA DRB34 | 378 | 14 | 0.6 | 30 | 10 | ADF76187 | Adf76187 Mutagenic |
| C 306 | 14 | 0.6 | 25 | 3 | AAc96623 | Aac96623 HLA DRB34 | 379 | 14 | 0.6 | 30 | 10 | ABX34435 | Abx34435 Degenerat |
| C 307 | 14 | 0.6 | 25 | 3 | AAc96827 | Aac96827 HLA HLA-C | 380 | 14 | 0.6 | 30 | 11 | ADY37899 | Ady37899 PCR prime |
| C 308 | 14 | 0.6 | 25 | 3 | AAc95826 | Aac95826 HLA HLA-A | 381 | 14 | 0.6 | 30 | 12 | ADG72445 | Adg72445 PCR prime |
| C 309 | 14 | 0.6 | 25 | 3 | AAc80355 | Aac80355 Forward p | 382 | 14 | 0.6 | 30 | 12 | ADG72283 | Adg72283 Tetrahyme |
| C 310 | 14 | 0.6 | 25 | 6 | ABL52798 | Ab152798 Primer us | 383 | 14 | 0.6 | 30 | 12 | ADO70066 | Ado70066 C glutami |
| C 311 | 14 | 0.6 | 25 | 8 | ACF64208 | Acf64208 Human var | 384 | 14 | 0.6 | 30 | 12 | ADP09443 | Adp09443 PCR prime |

| | | | | | | | | | | | | | |
|-------|----|-----|----|----|----------|--------------------|-------|----|-----|----|----|----------|--------------------|
| 531 | 13 | 0.6 | 17 | 8 | ABZ64757 | Abz64757 Human HER | 604 | 13 | 0.6 | 18 | 8 | ACA75485 | Aca75485 Human WSX |
| 532 | 13 | 0.6 | 17 | 8 | ACD62826 | AcD62826 HCV minus | 605 | 13 | 0.6 | 18 | 8 | ABX12227 | Abx12227 Rat dopam |
| C 533 | 13 | 0.6 | 17 | 8 | ACD59843 | AcD59843 HCV DNazY | C 606 | 13 | 0.6 | 18 | 9 | ACH66790 | Ach66790 Human WSX |
| C 534 | 13 | 0.6 | 17 | 8 | ACD50354 | AcD50354 HBV hamme | C 607 | 13 | 0.6 | 18 | 9 | ACH66791 | Ach66791 Human WSX |
| C 535 | 13 | 0.6 | 17 | 8 | ACD51704 | AcD51704 HBV inozy | C 608 | 13 | 0.6 | 18 | 10 | ADC08925 | Adc08925 Human WSX |
| C 536 | 13 | 0.6 | 17 | 8 | ACD50353 | AcD50353 HBV hamme | C 609 | 13 | 0.6 | 18 | 10 | ADC08926 | Adc08926 Human WSX |
| C 537 | 13 | 0.6 | 17 | 8 | ACD51705 | AcD51705 HBV inozy | C 610 | 13 | 0.6 | 18 | 10 | ACA62205 | AcA62205 pBR322 PC |
| C 538 | 13 | 0.6 | 17 | 8 | ACC63183 | Acc63183 Murine ol | C 611 | 13 | 0.6 | 18 | 10 | ACA60625 | AcA60625 Antisense |
| 539 | 13 | 0.6 | 17 | 8 | ACC65925 | Acc65925 Murine ol | C 612 | 13 | 0.6 | 18 | 10 | ABX77450 | Abx77450 Human lrb |
| 540 | 13 | 0.6 | 17 | 10 | ADB42164 | AdB42164 Tumour su | C 613 | 13 | 0.6 | 18 | 12 | ADP29055 | Adp29055 Rat dopam |
| C 541 | 13 | 0.6 | 17 | 10 | ADB43841 | AdB43841 Tumour su | C 614 | 13 | 0.6 | 18 | 12 | ADN35827 | Adn35827 Human NSC |
| C 542 | 13 | 0.6 | 17 | 10 | AD147623 | Ad147623 Human tum | C 615 | 13 | 0.6 | 18 | 12 | ADO56938 | Ado56938 Human CAR |
| C 543 | 13 | 0.6 | 17 | 10 | ACC54479 | Acc54479 Human tum | C 616 | 13 | 0.6 | 18 | 12 | ADO57009 | Ado57009 Human CAR |
| C 544 | 13 | 0.6 | 17 | 11 | ADM54085 | Adm54085 Human GRI | C 617 | 13 | 0.6 | 18 | 13 | ADR27187 | Adr27187 Human sin |
| C 545 | 13 | 0.6 | 17 | 11 | ADM54298 | Adm54298 Human GRI | C 618 | 13 | 0.6 | 18 | 13 | ADR49559 | Adr49559 PCR prime |
| C 546 | 13 | 0.6 | 17 | 11 | ADM54086 | Adm54086 Human GRI | C 619 | 13 | 0.6 | 18 | 13 | ADS88767 | Ads88767 Primer us |
| C 547 | 13 | 0.6 | 17 | 11 | ADB57999 | Adb57999 Human VEG | C 620 | 13 | 0.6 | 18 | 14 | ADW88133 | Adw88133 Human WSX |
| C 548 | 13 | 0.6 | 17 | 11 | AEb61836 | Aeb61836 Human VEG | C 621 | 13 | 0.6 | 18 | 14 | ADW88133 | Adw88133 Human WSX |
| C 549 | 13 | 0.6 | 17 | 11 | AEb61122 | Aeb61122 Human VEG | C 622 | 13 | 0.6 | 18 | 14 | ADW88134 | Adw88134 Human WSX |
| C 550 | 13 | 0.6 | 17 | 12 | ADG47589 | Adg47589 DNA duple | C 623 | 13 | 0.6 | 19 | 2 | AAV80144 | Aav80144 Oef2/Cbfa |
| C 551 | 13 | 0.6 | 17 | 12 | ADG47604 | Adg47604 DNA duple | C 624 | 13 | 0.6 | 19 | 3 | AAZ84371 | Aaz84371 Cyclin D2 |
| C 552 | 13 | 0.6 | 17 | 12 | ADK13122 | Adk13122 Human gli | C 625 | 13 | 0.6 | 19 | 3 | AAZ89369 | Aaz89369 F. gramin |
| C 553 | 13 | 0.6 | 17 | 12 | ADK13119 | Adk13119 Human gli | C 626 | 13 | 0.6 | 19 | 3 | AAZ73871 | Aaz73871 Human bia |
| C 554 | 13 | 0.6 | 17 | 12 | ADK13309 | Adk13309 Human gli | C 627 | 13 | 0.6 | 19 | 4 | AAF84576 | Aaf84576 Probe and |
| C 555 | 13 | 0.6 | 17 | 12 | ADK13322 | Adk13322 Human gli | C 628 | 13 | 0.6 | 19 | 5 | AAH59533 | Aah59533 Cyclin D2 |
| C 556 | 13 | 0.6 | 17 | 12 | ADM58601 | Adm58601 Hepatitis | C 629 | 13 | 0.6 | 19 | 6 | ABK12374 | Abk12374 Human tum |
| C 557 | 13 | 0.6 | 17 | 12 | ADM58600 | Adm58600 Hepatitis | C 630 | 13 | 0.6 | 19 | 6 | ABK12374 | Abk12374 Human tum |
| C 558 | 13 | 0.6 | 17 | 12 | ADM57917 | Adm57917 Hepatitis | C 631 | 13 | 0.6 | 19 | 8 | ACF03602 | Acf03602 Human NOV |
| C 559 | 13 | 0.6 | 17 | 12 | ADM57918 | Adm57918 Hepatitis | C 632 | 13 | 0.6 | 19 | 10 | ADe27282 | AdE27282 Stearoyl- |
| C 560 | 13 | 0.6 | 17 | 12 | AD185776 | Ad185776 HCV DNazY | C 633 | 13 | 0.6 | 19 | 10 | ADe27282 | AdE27282 Stearoyl- |
| C 561 | 13 | 0.6 | 17 | 12 | AD184287 | Ad184287 HCV DNazY | C 634 | 13 | 0.6 | 19 | 10 | ADe27572 | AdE27572 Stearoyl- |
| C 562 | 13 | 0.6 | 17 | 12 | ADP46277 | Adp46277 Extend pr | C 635 | 13 | 0.6 | 19 | 10 | ADe27243 | AdE27243 Stearoyl- |
| C 563 | 13 | 0.6 | 17 | 12 | ADQ30667 | Adq30667 West Nile | C 636 | 13 | 0.6 | 19 | 10 | ADF37143 | Adf37143 Human VEG |
| C 564 | 13 | 0.6 | 17 | 12 | ADQ30666 | Adq30666 West Nile | C 637 | 13 | 0.6 | 19 | 10 | ADF36961 | Adf36961 Human VEG |
| C 565 | 13 | 0.6 | 17 | 13 | ACN65098 | Acn65098 Human GDM | C 638 | 13 | 0.6 | 19 | 10 | ADF35848 | Adf35848 Human VEG |
| C 566 | 13 | 0.6 | 17 | 13 | ACN69437 | Acn69437 Human GDM | C 639 | 13 | 0.6 | 19 | 10 | ADF36819 | Adf36819 Human VEG |
| C 567 | 13 | 0.6 | 17 | 13 | ACN69439 | Acn69439 Human GDM | C 640 | 13 | 0.6 | 19 | 10 | ADF36637 | Adf36637 Human VEG |
| C 568 | 13 | 0.6 | 17 | 13 | ACN69440 | Acn69440 Human GDM | C 641 | 13 | 0.6 | 19 | 10 | ADF36275 | Adf36275 Human VEG |
| C 569 | 13 | 0.6 | 17 | 13 | ACN69438 | Acn69438 Human GDM | C 642 | 13 | 0.6 | 19 | 10 | ADF49452 | Adf49452 Human BCL |
| C 570 | 13 | 0.6 | 17 | 13 | ACN73604 | Acn73604 Human GDM | C 643 | 13 | 0.6 | 19 | 10 | ADP49866 | Adp49866 Human BCL |
| C 571 | 13 | 0.6 | 17 | 13 | ACN65100 | Acn65100 Human GDM | C 644 | 13 | 0.6 | 19 | 10 | ADH16387 | Adh16387 Human BAC |
| C 572 | 13 | 0.6 | 17 | 13 | ACN65102 | Acn65102 Human GDM | C 645 | 13 | 0.6 | 19 | 10 | ADH16712 | Adh16712 Human BAC |
| C 573 | 13 | 0.6 | 17 | 13 | ACN73606 | Acn73606 Human GDM | C 646 | 13 | 0.6 | 19 | 10 | ADJ66268 | Adj66268 Human TGF |
| C 574 | 13 | 0.6 | 17 | 13 | ACN73608 | Acn73608 Human GDM | C 647 | 13 | 0.6 | 19 | 10 | ADJ66396 | Adj66396 Human TGF |
| C 575 | 13 | 0.6 | 17 | 13 | ACN65099 | Acn65099 Human GDM | C 648 | 13 | 0.6 | 19 | 11 | ADL78930 | Adl78930 Human HER |
| C 576 | 13 | 0.6 | 17 | 13 | ACN65101 | Acn65101 Human GDM | C 649 | 13 | 0.6 | 19 | 11 | ADL79179 | Adl79179 Human HER |
| C 577 | 13 | 0.6 | 17 | 13 | ACN73605 | Acn73605 Human GDM | C 650 | 13 | 0.6 | 19 | 11 | ADL60016 | Adl60016 Arabidops |
| C 578 | 13 | 0.6 | 17 | 13 | ACN73607 | Acn73607 Human GDM | C 651 | 13 | 0.6 | 19 | 12 | ADH72496 | Adh72496 Human rev |
| C 579 | 13 | 0.6 | 17 | 13 | ACN69441 | Acn69441 Human H-R | C 652 | 13 | 0.6 | 19 | 12 | ADO15975 | Ado15975 4 syntase |
| C 580 | 13 | 0.6 | 17 | 14 | ADX99776 | Adx99776 Extend pr | C 653 | 13 | 0.6 | 19 | 13 | ADR27020 | Adr27020 Human sin |
| C 581 | 13 | 0.6 | 17 | 14 | ADX99733 | Adx99733 Extend pr | C 654 | 13 | 0.6 | 19 | 13 | ADR19866 | Adr19866 HCMV UL75 |
| C 582 | 13 | 0.6 | 17 | 14 | ADX81947 | Adx81947 Melanoma | C 655 | 13 | 0.6 | 19 | 13 | ADR80355 | Adr80355 Human apo |
| C 583 | 13 | 0.6 | 17 | 14 | AD233831 | Ad233831 Human HER | C 656 | 13 | 0.6 | 19 | 13 | ADR77411 | Adr77411 Human apo |
| C 584 | 13 | 0.6 | 17 | 14 | AD233180 | Ad233180 Human H-R | C 657 | 13 | 0.6 | 19 | 13 | ADR82053 | Adr82053 Hepatitis |
| C 585 | 13 | 0.6 | 17 | 14 | AD234016 | Ad234016 Human HER | C 658 | 13 | 0.6 | 19 | 13 | ADT65966 | Adt65966 SARS coro |
| C 586 | 13 | 0.6 | 18 | 2 | AAQ15091 | Aaq15091 T-cell re | C 659 | 13 | 0.6 | 19 | 13 | ADT64315 | Adt64315 SARS coro |
| C 587 | 13 | 0.6 | 18 | 2 | AAQ91959 | Aaq91959 T-cell re | C 660 | 13 | 0.6 | 19 | 13 | ADT81854 | Adt81854 Apolipop |
| C 588 | 13 | 0.6 | 18 | 2 | AAZ56729 | Aaz56729 Human TNF | C 661 | 13 | 0.6 | 19 | 13 | ADT84798 | Adt84798 Apolipop |
| C 589 | 13 | 0.6 | 18 | 2 | AAZ67192 | Aaz67192 Human CD4 | C 662 | 13 | 0.6 | 19 | 13 | ADT86510 | Adt86510 Hepatitis |
| C 590 | 13 | 0.6 | 18 | 2 | AAZ32947 | Aaz32947 Duplex ta | C 663 | 13 | 0.6 | 19 | 13 | ADU98059 | Adu98059 PCR prime |
| C 591 | 13 | 0.6 | 18 | 2 | AAZ92756 | Aaz92756 Vbeta20 T | C 664 | 13 | 0.6 | 19 | 14 | ADM85564 | Adm85564 MAP3K9 ma |
| C 592 | 13 | 0.6 | 18 | 2 | AAZ85594 | Aaz85594 Sense oli | C 665 | 13 | 0.6 | 19 | 14 | ADV93772 | Adv93772 Beta-egr |
| C 593 | 13 | 0.6 | 18 | 2 | AAZ85595 | Aaz85595 Antisense | C 666 | 13 | 0.6 | 19 | 14 | ADV93447 | Adv93447 Beta-egr |
| C 594 | 13 | 0.6 | 18 | 3 | AAZ52849 | Aaz52849 Human CD4 | C 667 | 13 | 0.6 | 19 | 14 | ADW79053 | Adw79053 Human ace |
| C 595 | 13 | 0.6 | 18 | 3 | AAZ71485 | Aaz71485 Human bia | C 668 | 13 | 0.6 | 19 | 14 | ADW79467 | Adw79467 Human ace |
| C 596 | 13 | 0.6 | 18 | 3 | AAZ69756 | Aaz69756 Human bia | C 669 | 13 | 0.6 | 19 | 14 | ADW80145 | Adw80145 Human KLF |
| C 597 | 13 | 0.6 | 18 | 3 | AAA99607 | Aaa99607 Rat D4 re | C 670 | 13 | 0.6 | 19 | 14 | ADX84592 | Adx84592 DNA targe |
| C 598 | 13 | 0.6 | 18 | 3 | AAA75986 | Aaa75986 PCR prime | C 671 | 13 | 0.6 | 19 | 14 | ADX84596 | Adx84596 DNA targe |
| C 599 | 13 | 0.6 | 18 | 3 | AAA75495 | Aaa75495 Primer fo | C 672 | 13 | 0.6 | 19 | 14 | ADY57392 | Ady57392 Human hai |
| C 600 | 13 | 0.6 | 18 | 4 | AAF94771 | Aaf94771 Rac 1 ant | C 673 | 13 | 0.6 | 19 | 14 | ADY57599 | Ady57599 Human hai |
| C 601 | 13 | 0.6 | 18 | 6 | ABL44181 | Ab144181 Human chr | C 674 | 13 | 0.6 | 19 | 14 | ADY57906 | Ady57906 Human hai |
| C 602 | 13 | 0.6 | 18 | 6 | AB866235 | Ab866235 Haemophil | C 675 | 13 | 0.6 | 19 | 14 | ADY57699 | Ady57699 Human hai |
| C 603 | 13 | 0.6 | 18 | 8 | ACA75484 | Aca75484 Human WSX | C 676 | 13 | 0.6 | 19 | 14 | ADY50653 | Ady50653 MAPK14 ei |

| | | | | | | | | | | | | | |
|-------|----|-----|----|----|-----------|--------------------|-------|----|-----|----|----|-----------|---------------------|
| 677 | 13 | 0.6 | 19 | 14 | ADY82086 | Ady82086 Thale-crc | c 750 | 13 | 0.6 | 20 | 6 | ABI94822 | Abi94822 Capture o |
| 678 | 13 | 0.6 | 19 | 14 | ADY87528 | Ady87528 VEGFR sir | 751 | 13 | 0.6 | 20 | 6 | Abi97435 | Abi97435 Capture o |
| 679 | 13 | 0.6 | 19 | 14 | ADY88214 | Ady88214 VEGFR sir | 752 | 13 | 0.6 | 20 | 6 | AAD24934 | Aad24934 Antisense |
| c 680 | 13 | 0.6 | 19 | 14 | ADY87890 | Ady87890 VEGFR sir | 753 | 13 | 0.6 | 20 | 8 | ACC70784 | Acc70784 Tubercle |
| c 681 | 13 | 0.6 | 19 | 14 | ADY88072 | Ady88072 VEGFR sir | c 754 | 13 | 0.6 | 20 | 8 | ABA00531 | Abao00531 Phospholi |
| c 682 | 13 | 0.6 | 19 | 14 | ADY880396 | Ady88396 VEGFR sir | c 755 | 13 | 0.6 | 20 | 8 | ACC47051 | Acc47051 Mouse pho |
| c 683 | 13 | 0.6 | 19 | 14 | ADY87101 | Ady87101 VEGFR sir | c 756 | 13 | 0.6 | 20 | 8 | ABZ81857 | Abz81857 Notch2 re |
| 684 | 13 | 0.6 | 19 | 14 | ADZ84449 | Adz84449 Method of | c 757 | 13 | 0.6 | 20 | 8 | ABZ71043 | Abz71043 Human HKR |
| 685 | 13 | 0.6 | 19 | 14 | ADZ82930 | Adz82930 AKT1 gene | c 758 | 13 | 0.6 | 20 | 9 | ACC99657 | Acc99657 Dynamain P |
| c 686 | 13 | 0.6 | 19 | 14 | ADZ87848 | Adz87848 Early gro | c 759 | 13 | 0.6 | 20 | 9 | ADA66410 | Ada66410 NF-AT DNA |
| c 687 | 13 | 0.6 | 19 | 14 | ADZ88022 | Adz88022 Early gro | c 760 | 13 | 0.6 | 20 | 9 | ADBA25692 | Adb25692 Human con |
| c 688 | 13 | 0.6 | 19 | 14 | AEA03492 | Aea03492 Hairless | 761 | 13 | 0.6 | 20 | 9 | ACD13697 | Acc13697 Human epi |
| c 689 | 13 | 0.6 | 19 | 14 | AEA03392 | Aea03392 Hairless | c 762 | 13 | 0.6 | 20 | 9 | ACC84623 | Acc84623 Borrelia |
| c 690 | 13 | 0.6 | 19 | 14 | AEA03185 | Aea03185 Hairless | c 763 | 13 | 0.6 | 20 | 9 | ACC84629 | Acc84629 Borrelia |
| c 691 | 13 | 0.6 | 19 | 14 | AEA03699 | Aea03699 Hairless | 764 | 13 | 0.6 | 20 | 10 | ADB83411 | Adb83411 EGF singl |
| c 692 | 13 | 0.6 | 19 | 14 | AEA11868 | Aea11868 Human ACA | 765 | 13 | 0.6 | 20 | 10 | ADC72246 | Adc72246 Rat NR3B |
| c 693 | 13 | 0.6 | 19 | 14 | AEA11454 | Aea11454 Human ACA | 766 | 13 | 0.6 | 20 | 10 | Add24772 | Add24772 Human NAT |
| 694 | 13 | 0.6 | 19 | 14 | AEBO8954 | Aeb08954 Human alp | 767 | 13 | 0.6 | 20 | 10 | Add20233 | Add20233 Oreochrom |
| c 695 | 13 | 0.6 | 19 | 14 | AEBO8868 | Aeb08868 Human alp | 768 | 13 | 0.6 | 20 | 10 | Add41937 | Add41937 Transposo |
| 696 | 13 | 0.6 | 19 | 14 | ABE29216 | AbE29216 Human sir | c 769 | 13 | 0.6 | 20 | 10 | ADZF7916 | Adzf7916 Human B7- |
| c 697 | 13 | 0.6 | 19 | 14 | ABE54897 | AbE54897 siRNA tar | 770 | 13 | 0.6 | 20 | 10 | ADF87809 | Adf87809 Single nu |
| c 698 | 13 | 0.6 | 19 | 14 | ABE43602 | AbE43602 Novel hum | c 771 | 13 | 0.6 | 20 | 10 | ADG93020 | Adg93020 Human FT- |
| c 699 | 13 | 0.6 | 19 | 14 | ABE43428 | AbE43428 Novel hum | 772 | 13 | 0.6 | 20 | 10 | ADH63144 | Adh63144 FGF recep |
| c 700 | 13 | 0.6 | 19 | 14 | ABE31647 | AbE31647 Human Aut | 773 | 13 | 0.6 | 20 | 10 | ADH93169 | Adh93169 Human gen |
| c 701 | 13 | 0.6 | 20 | 2 | AAQ32803 | Aaq32803 Microsate | c 774 | 13 | 0.6 | 20 | 10 | ADH93213 | Adh93213 Human gen |
| c 702 | 13 | 0.6 | 20 | 2 | AAQ51061 | Aaq51061 Human glu | 775 | 13 | 0.6 | 20 | 10 | ABS56047 | Abs56047 PCR prime |
| c 703 | 13 | 0.6 | 20 | 2 | AAQ42953 | Aaq42953 Sense PCR | 776 | 13 | 0.6 | 20 | 10 | AAI53492 | Aai53492 Signal tr |
| 704 | 13 | 0.6 | 20 | 2 | AAQ57826 | Aaq57826 Primer pa | c 777 | 13 | 0.6 | 20 | 10 | AAZ59250 | Aaz59250 Human PDE |
| 705 | 13 | 0.6 | 20 | 2 | AAQ71154 | Aaq71154 Merlin ex | c 778 | 13 | 0.6 | 20 | 10 | ABZ84982 | Abz84982 Human oli |
| 706 | 13 | 0.6 | 20 | 2 | AAQ84976 | Aaq84976 Putative | c 779 | 13 | 0.6 | 20 | 10 | ABZ84982 | Abz84982 Human MCP |
| 707 | 13 | 0.6 | 20 | 2 | AA7171951 | Aat71951 Primer de | c 780 | 13 | 0.6 | 20 | 10 | ABZ84981 | Abz84981 Human oli |
| 708 | 13 | 0.6 | 20 | 2 | AA772023 | Aat72023 Primer de | c 781 | 13 | 0.6 | 20 | 10 | ABZ91403 | Abz91403 Human oli |
| 709 | 13 | 0.6 | 20 | 2 | AA732946 | Aax32946 Seq ID No | 782 | 13 | 0.6 | 20 | 10 | ABZ93389 | Abz93389 Human MCP |
| c 710 | 13 | 0.6 | 20 | 2 | AA793921 | Adg77873 Canine di | c 783 | 13 | 0.6 | 20 | 10 | ABZ98024 | Abz98024 Human MCP |
| c 711 | 13 | 0.6 | 20 | 2 | AA793921 | Adg77873 Canine di | 784 | 13 | 0.6 | 20 | 10 | ABZ88057 | Abz88057 Human oli |
| 712 | 13 | 0.6 | 20 | 2 | AAV13852 | Aax13852 Primer #1 | 785 | 13 | 0.6 | 20 | 10 | ABZ89138 | Abz89138 Human oli |
| 713 | 13 | 0.6 | 20 | 2 | AAV17824 | Aax17824 Mus muscu | c 786 | 13 | 0.6 | 20 | 10 | ABZ92266 | Abz92266 Human oli |
| c 714 | 13 | 0.6 | 20 | 2 | AA86542 | Aax86542 Primer re | 787 | 13 | 0.6 | 20 | 10 | ABZ85383 | Abz85383 Human oli |
| c 715 | 13 | 0.6 | 20 | 2 | AA206356 | Aax06356 Primer Ex | c 788 | 13 | 0.6 | 20 | 10 | ABZ93313 | Abz93313 Human oli |
| c 716 | 13 | 0.6 | 20 | 2 | AA202841 | Aax02841 PCR prime | c 789 | 13 | 0.6 | 20 | 10 | ABZ80359 | Abz80359 CD45 anti |
| 717 | 13 | 0.6 | 20 | 2 | AA206053 | Aax06053 PCR prime | c 790 | 13 | 0.6 | 20 | 10 | ACC79001 | Acc79001 Human DC- |
| 718 | 13 | 0.6 | 20 | 2 | AA75985 | Aax75985 SB transp | c 791 | 13 | 0.6 | 20 | 10 | ABZ77119 | Abz77119 Human ste |
| c 719 | 13 | 0.6 | 20 | 2 | AA792845 | Aax92845 PCR prime | 792 | 13 | 0.6 | 20 | 10 | ACA58112 | Acc58112 Human fam |
| c 720 | 13 | 0.6 | 20 | 2 | AA794739 | Aax94739 PCR prime | 793 | 13 | 0.6 | 20 | 10 | ADK81929 | Adk81929 Human PPI |
| c 721 | 13 | 0.6 | 20 | 3 | AA555741 | Aaa55741 TRAF1 ant | c 794 | 13 | 0.6 | 20 | 11 | ABD29543 | Abd29543 AA664176- |
| c 722 | 13 | 0.6 | 20 | 3 | AA545273 | Aaa54273 Antisense | 795 | 13 | 0.6 | 20 | 11 | ABD21212 | Abd21212 Human tra |
| 723 | 13 | 0.6 | 20 | 3 | AA276095 | Aax76095 Human bia | c 796 | 13 | 0.6 | 20 | 11 | ABD28496 | Abd28496 R33851-de |
| c 724 | 13 | 0.6 | 20 | 3 | AA276853 | Aax76853 Human bia | c 797 | 13 | 0.6 | 20 | 11 | ABD27633 | Abd27633 AA448400- |
| c 725 | 13 | 0.6 | 20 | 3 | AA95924 | Aax95924 Human PSA | 798 | 13 | 0.6 | 20 | 11 | ABD25368 | Abd25368 A1122807- |
| c 726 | 13 | 0.6 | 20 | 3 | AA95619 | Aax95619 TCR Vbeta | c 799 | 13 | 0.6 | 20 | 11 | ABD29619 | Abd29619 H86812-de |
| c 727 | 13 | 0.6 | 20 | 3 | AA921115 | Aax92115 Mouse Lhx | c 800 | 13 | 0.6 | 20 | 11 | ABD31056 | Abd31056 Human MCP |
| c 728 | 13 | 0.6 | 20 | 3 | AA921112 | Aax92112 Mouse Lhx | c 801 | 13 | 0.6 | 20 | 11 | ABD31055 | Abd31055 Human MCP |
| c 729 | 13 | 0.6 | 20 | 3 | AA653384 | Aac65384 Human pla | c 802 | 13 | 0.6 | 20 | 11 | ABD32281 | Abd32281 Human PDE |
| c 730 | 13 | 0.6 | 20 | 3 | AA888741 | Aax88741 Placenta | c 803 | 13 | 0.6 | 20 | 11 | ABD21211 | Abd21211 Human tra |
| c 731 | 13 | 0.6 | 20 | 4 | AA732981 | Aaf32981 Human B7- | 804 | 13 | 0.6 | 20 | 11 | ABD21613 | Abd21613 S100 calc |
| 732 | 13 | 0.6 | 20 | 4 | AA772981 | Aaf72981 Human dax | c 805 | 13 | 0.6 | 20 | 11 | ABD24287 | Abd24287 A105013- |
| 733 | 13 | 0.6 | 20 | 4 | AA711320 | Aad11320 Human cot | c 806 | 13 | 0.6 | 20 | 12 | ADH70977 | Adh70977 Human Vbe |
| 734 | 13 | 0.6 | 20 | 4 | AA047555 | Aad04755 18747R PC | c 807 | 13 | 0.6 | 20 | 12 | ADH56450 | Adh56450 Human tum |
| c 735 | 13 | 0.6 | 20 | 4 | AA165464 | Aai65464 PCR prime | c 808 | 13 | 0.6 | 20 | 12 | ADI30067 | Adi30067 Human dua |
| c 736 | 13 | 0.6 | 20 | 6 | ABK68872 | Abk68872 Ehrlichia | c 809 | 13 | 0.6 | 20 | 12 | ADI30017 | Adi30017 Human dua |
| c 737 | 13 | 0.6 | 20 | 6 | ABT06305 | Abt06305 Human NOV | c 810 | 13 | 0.6 | 20 | 12 | ADK95663 | Adk95663 Primer of |
| 738 | 13 | 0.6 | 20 | 6 | ABT06305 | Abt06305 Human NOV | c 811 | 13 | 0.6 | 20 | 12 | ADK95481 | Adk95481 Primer of |
| c 739 | 13 | 0.6 | 20 | 6 | ABL44602 | Ab144602 Human chr | c 812 | 13 | 0.6 | 20 | 12 | ADK95048 | Adk95048 Primer of |
| 740 | 13 | 0.6 | 20 | 6 | ABL44906 | Ab144906 Human chr | c 813 | 13 | 0.6 | 20 | 12 | ADJ61135 | Adj61135 Oligonucl |
| 741 | 13 | 0.6 | 20 | 6 | ABK71989 | Abk71989 Human MTG | c 814 | 13 | 0.6 | 20 | 12 | ADJ59892 | Adj59892 Oligonucl |
| 742 | 13 | 0.6 | 20 | 6 | ABZ31192 | Abz31192 Candida a | c 815 | 13 | 0.6 | 20 | 12 | ADJ59891 | Adj59891 Oligonucl |
| c 743 | 13 | 0.6 | 20 | 6 | ABZ31120 | Abz31120 Candida a | 816 | 13 | 0.6 | 20 | 12 | ADJ53371 | Adj53371 Human G p |
| 744 | 13 | 0.6 | 20 | 6 | AA816018 | Aas16018 Mouse mic | c 817 | 13 | 0.6 | 20 | 12 | ADJ54358 | Adj54358 Human B7- |
| 745 | 13 | 0.6 | 20 | 6 | ABK48560 | Abk48560 PCR prime | c 818 | 13 | 0.6 | 20 | 12 | ADJ62101 | Adj62101 Human EDG |
| 746 | 13 | 0.6 | 20 | 6 | ABX03702 | Abx03702 Human REC | c 819 | 13 | 0.6 | 20 | 12 | ADJ96320 | Adj96320 Human bre |
| 747 | 13 | 0.6 | 20 | 6 | ABK50625 | Abk50625 Human MK6 | c 820 | 13 | 0.6 | 20 | 12 | ADJ96347 | Adj96347 Human bre |
| 748 | 13 | 0.6 | 20 | 6 | ABQ74823 | Abq74823 Human TNF | 821 | 13 | 0.6 | 20 | 12 | ADJ96283 | Adj96283 Human bre |
| 749 | 13 | 0.6 | 20 | 6 | AB195923 | Ab195923 Capture o | c 822 | 13 | 0.6 | 20 | 12 | ADJ96419 | Adj96419 Human bre |

| | | | | | | | | | | | | | | | |
|-------|----|-----|----|----|----------|----------|-----------|-------|----|-----|----|----|----------|-----------|------------|
| C 823 | 13 | 0.6 | 20 | 12 | ADK76567 | Adk76567 | Chimeric | C 896 | 13 | 0.6 | 20 | 14 | ADW98220 | Adw98220 | Human bre |
| C 824 | 13 | 0.6 | 20 | 12 | ADK76975 | Adk76975 | Chimeric | C 897 | 13 | 0.6 | 20 | 14 | ADX18267 | Adx18267 | Human Ste |
| C 825 | 13 | 0.6 | 20 | 12 | ADK77438 | Adk77438 | Chimeric | C 898 | 13 | 0.6 | 20 | 14 | ADX18275 | Adx18275 | Human Ste |
| C 826 | 13 | 0.6 | 20 | 12 | ADK77381 | Adk77381 | Chimeric | C 899 | 13 | 0.6 | 20 | 14 | ADX18170 | Adx18170 | Human Ste |
| C 827 | 13 | 0.6 | 20 | 12 | ADK76723 | Adk76723 | Chimeric | C 900 | 13 | 0.6 | 20 | 14 | ADX03455 | Adx03455 | Antisense |
| C 828 | 13 | 0.6 | 20 | 12 | ADK78365 | Adk78365 | Chimeric | C 901 | 13 | 0.6 | 20 | 14 | ADX82209 | Adx82209 | Melanoma |
| C 829 | 13 | 0.6 | 20 | 12 | ADK78822 | Adk78822 | Chimeric | C 902 | 13 | 0.6 | 20 | 14 | ADY28151 | Ady28151 | Receptor |
| C 830 | 13 | 0.6 | 20 | 12 | ADK77554 | Adk77554 | Chimeric | C 903 | 13 | 0.6 | 20 | 14 | ADY55274 | Ady55274 | PCR prime |
| C 831 | 13 | 0.6 | 20 | 12 | ADL61479 | Adl61479 | Human pro | C 904 | 13 | 0.6 | 20 | 14 | ADY55350 | Ady55350 | PCR prime |
| C 832 | 13 | 0.6 | 20 | 12 | ADM16627 | Adm16627 | Primer of | C 905 | 13 | 0.6 | 20 | 14 | ADY72359 | Ady72359 | Phosphoro |
| C 833 | 13 | 0.6 | 20 | 12 | ADM16671 | Adm16671 | Primer of | C 906 | 13 | 0.6 | 20 | 14 | ADY78971 | Ady78971 | SARS coro |
| C 834 | 13 | 0.6 | 20 | 12 | ADM49197 | Adm49197 | Rat NR3B | C 907 | 13 | 0.6 | 20 | 14 | ADZ00163 | Adz00163 | Human arg |
| C 835 | 13 | 0.6 | 20 | 12 | ADM14434 | Adm14434 | Human mPG | C 908 | 13 | 0.6 | 20 | 14 | ADZ12181 | Adz12181 | Human c-r |
| C 836 | 13 | 0.6 | 20 | 12 | ADM14630 | Adm14630 | Human mPG | C 909 | 13 | 0.6 | 20 | 14 | ADZ10968 | Adz10968 | Human STA |
| C 837 | 13 | 0.6 | 20 | 12 | ADM14206 | Adm14206 | Human mPG | C 910 | 13 | 0.6 | 20 | 14 | ADZ28242 | Adz28242 | Cyclophil |
| C 838 | 13 | 0.6 | 20 | 12 | ADM14254 | Adm14254 | Human mPG | C 911 | 13 | 0.6 | 20 | 14 | ADZ27217 | Adz27217 | Alzheimer |
| C 839 | 13 | 0.6 | 20 | 12 | ADM14339 | Adm14339 | Human mPG | C 912 | 13 | 0.6 | 20 | 14 | ADZ99928 | Adz99928 | Human STA |
| C 840 | 13 | 0.6 | 20 | 12 | ADM14260 | Adm14260 | Human mPG | C 913 | 13 | 0.6 | 20 | 14 | ADZ99856 | Adz99856 | 2'-MOE ga |
| C 841 | 13 | 0.6 | 20 | 12 | ADM14171 | Adm14171 | Human mPG | C 914 | 13 | 0.6 | 20 | 14 | ABE95143 | Abey95143 | Rat eIF4E |
| C 842 | 13 | 0.6 | 20 | 12 | ADM14499 | Adm14499 | Human mPG | C 915 | 13 | 0.6 | 20 | 14 | ABE94962 | Abey94962 | Rat eIF4E |
| C 843 | 13 | 0.6 | 20 | 12 | ADO59230 | Ado59230 | PCR prime | C 916 | 13 | 0.6 | 20 | 14 | AEC06875 | Aec06875 | Human DC- |
| C 844 | 13 | 0.6 | 20 | 12 | ADM34132 | Adm34132 | Human CD3 | C 917 | 13 | 0.6 | 20 | 14 | AEC06691 | Aec06691 | Human DC- |
| C 845 | 13 | 0.6 | 20 | 12 | ADM11329 | Adm11329 | Antisense | C 918 | 13 | 0.6 | 20 | 14 | AAQ49477 | Aaq49477 | Primer "g |
| C 846 | 13 | 0.6 | 20 | 12 | ADO45382 | Ado45382 | Human oli | C 919 | 13 | 0.6 | 21 | 2 | AAQ40368 | Aaq40368 | Sequence |
| C 847 | 13 | 0.6 | 20 | 12 | ADO45381 | Ado45381 | Human oli | C 920 | 13 | 0.6 | 21 | 2 | AAQ75780 | Aaq75780 | Reverse t |
| C 848 | 13 | 0.6 | 20 | 12 | ADM45381 | Adm45381 | Human oli | C 921 | 13 | 0.6 | 21 | 2 | AAQ75059 | Aaq75059 | Primer fo |
| C 849 | 13 | 0.6 | 20 | 12 | ADM46851 | Adm46851 | Human VEG | C 922 | 13 | 0.6 | 21 | 2 | AAQ95059 | Aaq95059 | Primer fo |
| C 850 | 13 | 0.6 | 20 | 12 | ADN58813 | Adn58813 | Human B7H | C 923 | 13 | 0.6 | 21 | 2 | AAV05283 | Aav05283 | PCR prime |
| C 851 | 13 | 0.6 | 20 | 12 | ADN58961 | Adn58961 | Human B7H | C 924 | 13 | 0.6 | 21 | 2 | AAZ26417 | Aaz26417 | Human pol |
| C 852 | 13 | 0.6 | 20 | 12 | ADN72005 | Adn72005 | Human gli | C 925 | 13 | 0.6 | 21 | 2 | AAV79994 | Aav79994 | BMP-1A DN |
| C 853 | 13 | 0.6 | 20 | 12 | ADO25101 | Ado25101 | Mouse che | C 926 | 13 | 0.6 | 21 | 3 | AAZ59313 | Aaz59313 | Human STP |
| C 854 | 13 | 0.6 | 20 | 12 | ADO24993 | Ado24993 | Mouse che | C 927 | 13 | 0.6 | 21 | 3 | AAZ94599 | Aaz94599 | Maize cyc |
| C 855 | 13 | 0.6 | 20 | 12 | ADP48455 | Adp48455 | Array oli | C 928 | 13 | 0.6 | 21 | 3 | AAZ76069 | Aaz76069 | Human bla |
| C 856 | 13 | 0.6 | 20 | 12 | ADN29249 | Adn29249 | Human kal | C 929 | 13 | 0.6 | 21 | 3 | AAZ80351 | Aaz80351 | Forward p |
| C 857 | 13 | 0.6 | 20 | 12 | ADN29174 | Adn29174 | Human kal | C 930 | 13 | 0.6 | 21 | 4 | AAZ88023 | Aaz88023 | Bovine ac |
| C 858 | 13 | 0.6 | 20 | 12 | ADP27717 | Adp27717 | PCR prime | C 931 | 13 | 0.6 | 21 | 4 | AAZ95372 | Aaz95372 | Human gen |
| C 859 | 13 | 0.6 | 20 | 12 | ADP74320 | Adp74320 | Human CDK | C 932 | 13 | 0.6 | 21 | 4 | AAH62192 | Aah62192 | Acid phos |
| C 860 | 13 | 0.6 | 20 | 12 | ADP74263 | Adp74263 | Human CDK | C 933 | 13 | 0.6 | 21 | 4 | AAH62656 | Aah62656 | Synaptocha |
| C 861 | 13 | 0.6 | 20 | 12 | ADP67181 | Adp67181 | Mitochond | C 934 | 13 | 0.6 | 21 | 4 | AAH62621 | Aah62621 | GUCY1B3 p |
| C 862 | 13 | 0.6 | 20 | 12 | ADP67103 | Adp67103 | Mitochond | C 935 | 13 | 0.6 | 21 | 4 | AAI66956 | Aai66956 | SSP1 cDNA |
| C 863 | 13 | 0.6 | 20 | 12 | ADP67182 | Adp67182 | Mitochond | C 936 | 13 | 0.6 | 21 | 5 | ADG20608 | Adg20608 | Human ABC |
| C 864 | 13 | 0.6 | 20 | 12 | ADP67104 | Adp67104 | Mitochond | C 937 | 13 | 0.6 | 21 | 6 | ABQ78310 | Abq78310 | Probe use |
| C 865 | 13 | 0.6 | 20 | 12 | ADP56756 | Adp56756 | Antisense | C 938 | 13 | 0.6 | 21 | 6 | AAI42481 | Aai42481 | Specific |
| C 866 | 13 | 0.6 | 20 | 12 | ADP56833 | Adp56833 | Human AMA | C 939 | 13 | 0.6 | 21 | 6 | ABS98055 | Abz98055 | Human mul |
| C 867 | 13 | 0.6 | 20 | 12 | ADP56832 | Adp56832 | Human AMA | C 940 | 13 | 0.6 | 21 | 6 | ABA93975 | Abz93975 | Influenza |
| C 868 | 13 | 0.6 | 20 | 12 | ADP56755 | Adp56755 | Antisense | C 941 | 13 | 0.6 | 21 | 6 | ABT06151 | Abz06151 | Human lig |
| C 869 | 13 | 0.6 | 20 | 12 | ADP84206 | Adp84206 | Forward p | C 942 | 13 | 0.6 | 21 | 6 | ABX97489 | Abz97489 | Human NOV |
| C 870 | 13 | 0.6 | 20 | 13 | ADQ90967 | Adq90967 | Human fib | C 943 | 13 | 0.6 | 21 | 6 | ABX03845 | Abz03845 | DNA encod |
| C 871 | 13 | 0.6 | 20 | 13 | ADR15353 | Adr15353 | Human gen | C 944 | 13 | 0.6 | 21 | 10 | ADB88491 | Adb88491 | Human cyc |
| C 872 | 13 | 0.6 | 20 | 13 | ADQ99617 | Adq99617 | Rice SNP | C 945 | 13 | 0.6 | 21 | 10 | ADD14464 | Adg14464 | Human erc |
| C 873 | 13 | 0.6 | 20 | 13 | ADP21151 | Adp21151 | Potato ve | C 946 | 13 | 0.6 | 21 | 10 | ADC73351 | Adc73351 | Mouse bet |
| C 874 | 13 | 0.6 | 20 | 13 | ADR89885 | Adr89885 | Primer fo | C 947 | 13 | 0.6 | 21 | 10 | ADE15615 | Adel15615 | Tricyclic |
| C 875 | 13 | 0.6 | 20 | 13 | ADS92387 | Ads92387 | Human TNF | C 948 | 13 | 0.6 | 21 | 10 | ADF50106 | Adf50106 | Human BCL |
| C 876 | 13 | 0.6 | 20 | 13 | ADT01054 | Adt01054 | Novel mut | C 949 | 13 | 0.6 | 21 | 10 | ADF50118 | Adf50118 | Human BCL |
| C 877 | 13 | 0.6 | 20 | 13 | ADT00347 | Adt00347 | Novel mut | C 950 | 13 | 0.6 | 21 | 10 | ADF50110 | Adf50110 | Human BCL |
| C 878 | 13 | 0.6 | 20 | 13 | ADT55177 | Adt55177 | Probe #5 | C 951 | 13 | 0.6 | 21 | 10 | ADF50126 | Adf50126 | Human BCL |
| C 879 | 13 | 0.6 | 20 | 13 | ADU21187 | Adu21187 | Real time | C 952 | 13 | 0.6 | 21 | 10 | ADF87389 | Adf87389 | Single nu |
| C 880 | 13 | 0.6 | 20 | 13 | ADU48759 | Adu48759 | Mouse glu | C 953 | 13 | 0.6 | 21 | 10 | ADG29709 | Adg29709 | BCL2-targ |
| C 881 | 13 | 0.6 | 20 | 13 | ADU74859 | Adu74859 | Saccharom | C 954 | 13 | 0.6 | 21 | 10 | ADG29697 | Adg29697 | BCL2-targ |
| C 882 | 13 | 0.6 | 20 | 13 | ADU91478 | Adu91478 | Human B7 | C 955 | 13 | 0.6 | 21 | 10 | ADG29705 | Adg29705 | BCL2-targ |
| C 883 | 13 | 0.6 | 20 | 14 | ADV20961 | Adv20961 | Human PBP | C 956 | 13 | 0.6 | 21 | 10 | ADG29701 | Adg29701 | BCL2-targ |
| C 884 | 13 | 0.6 | 20 | 14 | ADV61120 | Adv61120 | Platelet | C 957 | 13 | 0.6 | 21 | 10 | ADK68307 | Adk68307 | Novel NOV |
| C 885 | 13 | 0.6 | 20 | 14 | ADV96206 | Adv96206 | Diabetes | C 958 | 13 | 0.6 | 21 | 11 | ADM65087 | Adm65087 | Novel NOV |
| C 886 | 13 | 0.6 | 20 | 14 | ADW00006 | Adw00006 | Human pla | C 959 | 13 | 0.6 | 21 | 12 | ADF86286 | Adf86286 | Mouse HB |
| C 887 | 13 | 0.6 | 20 | 14 | ADW96328 | Adw96328 | Depressio | C 960 | 13 | 0.6 | 21 | 12 | ADG74810 | Adg74810 | Human glu |
| C 888 | 13 | 0.6 | 20 | 14 | ADW50389 | Adw50389 | Human B7- | C 961 | 13 | 0.6 | 21 | 12 | ADJ53347 | Adj53347 | Human G p |
| C 889 | 13 | 0.6 | 20 | 14 | ADW50039 | Adw50039 | Human B7- | C 962 | 13 | 0.6 | 21 | 12 | ADJ97818 | Adj97818 | Human Flk |
| C 890 | 13 | 0.6 | 20 | 14 | ADW46953 | Adw46953 | Human pro | C 963 | 13 | 0.6 | 21 | 12 | ADJ97820 | Adj97820 | Human Flk |
| C 891 | 13 | 0.6 | 20 | 14 | ADW83000 | Adw83000 | MAF3K9 ma | C 964 | 13 | 0.6 | 21 | 12 | ADJ97554 | Adj97554 | Human Flt |
| C 892 | 13 | 0.6 | 20 | 14 | ADW83000 | Adw83000 | MAF3K9 ma | C 965 | 13 | 0.6 | 21 | 12 | ADJ97819 | Adj97819 | Human Flk |
| C 893 | 13 | 0.6 | 20 | 14 | ADW85028 | Adw85028 | Human bre | C 966 | 13 | 0.6 | 21 | 12 | ADJ97821 | Adj97821 | Human Flk |
| C 894 | 13 | 0.6 | 20 | 14 | ADW98108 | Adw98108 | Human bre | C 967 | 13 | 0.6 | 21 | 12 | ADN62392 | Adn62392 | Human NOV |
| C 895 | 13 | 0.6 | 20 | 14 | ADW98071 | Adw98071 | Human bre | C 968 | 13 | 0.6 | 21 | 12 | ADO12862 | Ado12862 | Single mu |

969 13 21 13 ADR49296 Human NOV
c 970 13 21 13 ADR68121 BAPF siRN
971 13 21 13 ADR68120 BAPF siRN
972 13 21 13 ADT00456 Novel mut
c 973 13 21 13 ADS18440 Human sod
974 13 21 13 ADU27260 Knock-dow
975 13 21 13 ADU1428 Knock-dow
976 13 21 13 ADU43073 Knock-dow
977 13 21 13 ADU46552 Knock-dow
978 13 21 13 ADU44645 Knock-dow
979 13 21 13 ADU31974 Knock-dow
980 13 21 13 ADU41039 Knock-dow
c 981 13 21 13 ADU45426 Knock-dow
982 13 21 13 ADU23748 Knock-dow
983 13 21 13 ADU28641 Knock-dow
984 13 21 13 ADU46612 Knock-dow
c 985 13 21 13 ADU28722 Knock-dow
986 13 21 13 ADU41629 Knock-dow
c 987 13 21 13 ADU43390 Knock-dow
988 13 21 13 ADU45230 Knock-dow
c 989 13 21 13 ADU28654 Knock-dow
c 990 13 21 13 ADU32127 Knock-dow
c 991 13 21 13 ADU45253 Knock-dow
c 992 13 21 13 ADU16254 Human int
c 993 13 21 13 ADV10000 Human cat
c 994 13 21 13 ADV09999 Human cat
995 13 21 13 ADV10001 Human cat
996 13 21 13 AEA82005 Human lup
997 13 21 13 AEA85578 Human lup
c 998 13 21 13 AEA85580 Human lup
c 999 13 21 13 AEA85721 Human lup
1000 13 21 13 AEA85795 Human lup

ALIGNMENTS

RESULT 1
AAZ50448
ID AAZ50448 standard; DNA; 26 BP.
AC AAZ50448;
XX
DT 18-MAY-2000 (first entry)
XX
DE PB39 specific 5'PCR primer to amplify PB39 variant.
XX
KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;
KW prostate epithelium; splicing mechanism; early diagnosis; progression;
KW precancerous cell; metastatic potential; non-neoplastic prostate disease;
KW expressed sequence tag; EST; PCR primer; variant; ss.
XX
OS Homo sapiens.
XX
PN WO200005376-A1.
XX
PD 03-FEB-2000.
XX
PF 23-JUL-1999; 99WO-US016831.
XX
PR 24-JUL-1998; 98US-0094137P.
XX
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Chuasqui RF, Cole KA, Liotta LA;
XX
DR WPI; 2000-182700/16.
XX
PT Novel gene which is dysregulated in prostate cancer useful for diagnosing
PT cancer.
XX
PS Claim 5; Page 18; 51pp; English.
XX

CC The present sequence is the PB39 specific 5'primer, used to amplify the
CC variant cDNA from human pancreas library. It is used for the analysis of
CC the longer variant of PB39, encoding a 5kb transcript. The PB39 gene is
CC dysregulated in prostate cancer and portion of this gene is homologous to
CC EST AAR0504. PB39 gene is mapped to chromosome 11p11.1-11.2. Abnormally
CC high concentrations of PB39 are found in prostate tissue derived from
CC prostate cancer (PC) epithelium. PB39 sequence is useful for detection of
CC precancerous or cancer cells in the prostate. PB39 is useful for early
CC diagnosis of the progression of prostate cancer, especially in aggressive
CC prostate carcinoma. It can also distinguish PC from other non-neoplastic
CC prostate disease. The diagnostic method is selective and specific for
CC various types of PC and also facilitates identifying prostate cancer of
CC differing aggressiveness and metastatic potential
XX
SQ Sequence 26 BP; 4 A; 10 C; 3 G; 9 T; 0 U; 0 Other;
Query Match 1.1%; Score 26; DB 3; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.077;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 693 CCTGCTTATCTTCTTCTGAACGTGACC 718
Db 1 CCTGCTTATCTTCTTCTGAACGTGACC 26
RESULT 2
ACD20492
ID ACD20492 standard; DNA; 26 BP.
XX
AC ACD20492;
XX
DT 26-AUG-2003 (first entry)
XX
DE Human NOVX DNA probe #22.
XX
KW Human; NOVX; inflammatory disorder; demyelination disease; stroke;
KW renal disorder; infection; cardiomyopathy; atherosclerosis; acne;
KW hypertension; pancreatitis; Von Hippel-Lindau; endometriosis; fertility;
KW scleroderma; cirrhosis; inflammatory bowel disease; Crohn's disease;
KW haemophilia; autoimmune disease; allergy; AIDS;
KW graft versus host disease; Alzheimer's disease; arthritis; pain;
KW Parkinson's disease; Huntington's disease; obesity; diabetes;
KW hair growth; hair loss; asthma; schizophrenia; glomerulonephritis;
KW lupus erythematosus; psoriasis; antidiabetic; anorectic; metabolic;
KW neutropenic; neuroprotective; cytostatic; antibacterial; virucide;
KW protozoicide; antiarteriosclerotic; hypotensive; cerebroprotective;
KW antiinflammatory; gynaecological; antiinfertility; dermatological;
KW hepatotropic; haemostatic; immunosuppressive; antiallergic;
KW antiarthritic; anticonvulsant; antiseborrhoeic; antiasthmatic;
KW neuroleptic; anti-HIV; analgesic; nephrotropic; antipsoriatic; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200298917-A2.
XX
PD 12-DEC-2002.
XX
PF 12-FEB-2002; 2002WO-US022049.
XX
PR 12-FEB-2001; 2001US-0268221P.
PR 13-FEB-2001; 2001US-0268496P.
PR 14-FEB-2001; 2001US-0268646P.
PR 14-FEB-2001; 2001US-0268665P.
PR 15-FEB-2001; 2001US-0269136P.
PR 16-FEB-2001; 2001US-0269310P.
PR 16-FEB-2001; 2001US-0269530P.
PR 15-MAR-2001; 2001US-0276405P.
PR 16-MAR-2001; 2001US-0276399P.
PR 16-MAR-2001; 2001US-0276703P.
PR 23-MAR-2001; 2001US-0278199P.
PR 28-MAR-2001; 2001US-0279274P.
PR 30-MAR-2001; 2001US-0280238P.
PR 02-APR-2001; 2001US-0280899P.

PR 08-AUG-2001; 2001US-0310797P.
 PR 14-AUG-2001; 2001US-0312284P.
 PR 14-SEP-2001; 2001US-0322294P.
 PR 14-SEP-2001; 2001US-0322295P.
 PR 18-OCT-2001; 2001US-0330293P.
 PR 31-OCT-2001; 2001US-0335104P.
 PR 31-OCT-2001; 2001US-0335109P.
 PR 21-NOV-2001; 2001US-0332127P.
 PR 28-NOV-2001; 2001US-0331772P.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Guo X, Fernandes E, Li L, Kekuda R, Liu Y, Leite M, Spytek KA;
 PI Ji W, Casman SJ, Boldog FL, Patturajan M, Vernet CAM, Ballinger RA;
 PI Malyankar UM, Tcherven VT, Bialock AD, Gusev VY, Rastelli L;
 PI Mezes PD, Ellerman K, Heyes M, Herrmann JL, Shinkets RA, Ioime N;
 PI Pena CEA, Shenoy SG, Taupier RJ, Gerlach V, Gorman L;
 XX WPI; 2003-148650/14.
 DR
 XX Novel NOVX polypeptide useful for identifying an agent that binds to the
 PT polypeptide, and for treating cardiomyopathy, atherosclerosis,
 PT hypertension, infertility, scleroderma, cirrhosis, and inflammatory bowel
 PT disease.
 XX
 PS Example 3; Page 488; 566pp; English.
 XX
 CC The present invention relates to the isolation of novel human
 CC polypeptides referred to as NOVX (NOVI-NOV37), variants of these
 CC proteins, and the polynucleotide sequences encoding them. The NOVX
 CC proteins of the invention share homology to various types of protein
 CC families such as zinc finger-like proteins, enzymes, receptors, and
 CC lipoproteins. The sequences of the invention may be useful in the
 CC manufacture of a medicament for treating a syndrome associated with a
 CC human disease. For example they can be used to treat inflammatory
 CC disorders, demyelination disease, renal disorders, infections,
 CC cardiomyopathy, atherosclerosis, hypertension, stroke, pancreatitis, Von
 CC Hippel-Lindau, endometriosis, fertility, scleroderma, cirrhosis,
 CC inflammatory bowel disease, Crohn's disease, haemophilia, autoimmune
 CC diseases, allergies, graft versus host disease, Alzheimer's disease,
 CC arthritis, Parkinson's disease, Huntington's disease, obesity, diabetes,
 CC acne, hair growth/loss, asthma, schizophrenia, AIDS, pain,
 CC glomerulonephritis, lupus erythematosus, and psoriasis. The present
 CC sequence represents a probe used in the examples of the present
 CC invention. Note: SEQ ID Nos 113-460 are known sequences used for homology
 CC purposes
 XX
 SQ Sequence 26 BP; 5 A; 8 C; 5 G; 8 T; 0 U; 0 Other;
 Query Match 1.1%; Score 26; DB 8; Length 26;
 Best Local Similarity 100.0%; Pred. No. 0.077;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 739 CTTTCTGCCCCCTGAGGAGTCAATT 764
 Db 1 CTTTCTGCCCCCTGAGGAGTCAATT 26
 RESULT 3
 ACC72282
 ID ACC72282 standard; DNA; 26 BP.
 AC ACC72282;
 XX
 XX 07-JUL-2003 (first entry)
 DX
 XX Ag4870 probe.
 XX Human; NOV; antidiabetic; anorectic; antibacterial; virucide;
 KW immunomodulator; cytostatic; nootropic; neuroprotective;
 KW antiparkinsonian; antileptemic; gene therapy; metabolic disorder;
 KW diabetes; obesity; infection; cachexia; cancer; probe;
 KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;

KW immune disorder; haematopoietic disorder; dyslipidaemia; ss.
 XX Homo sapiens.
 XX WO2003029423-A2.
 PN 10-APR-2003.
 XX
 XX 02-OCT-2002; 2002WO-US031358.
 XX
 XX 02-OCT-2001; 2001US-0326483P.
 PR 05-OCT-2001; 2001US-0327342P.
 PR 09-OCT-2001; 2001US-0327917P.
 PR 09-OCT-2001; 2001US-0328029P.
 PR 09-OCT-2001; 2001US-0328044P.
 PR 09-OCT-2001; 2001US-0328056P.
 PR 12-OCT-2001; 2001US-0328849P.
 PR 15-OCT-2001; 2001US-0329414P.
 PR 17-OCT-2001; 2001US-0330142P.
 PR 22-OCT-2001; 2001US-0341058P.
 PR 24-OCT-2001; 2001US-0339266P.
 PR 24-OCT-2001; 2001US-0343629P.
 PR 29-OCT-2001; 2001US-0343575P.
 PR 01-NOV-2001; 2001US-0346357P.
 PR 12-APR-2002; 2002US-0371972P.
 PR 12-APR-2002; 2002US-0371980P.
 PR 17-APR-2002; 2002US-0373261P.
 PR 19-APR-2002; 2002US-0373805P.
 PR 23-APR-2002; 2002US-0374738P.
 PR 16-MAY-2002; 2002US-0381101P.
 PR 17-MAY-2002; 2002US-0381635P.
 PR 29-MAY-2002; 2002US-0383830P.
 PR 01-OCT-2002; 2002US-00262839.
 XX (CURA-) CURAGEN CORP.
 XX
 PI Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Catterton E;
 PI Edinger SR, Ellerman K, Gerlach VL, Gorman L, Guo X, Ji W;
 PI Kekuda R, Leach MD, Li L, Miller CE, Patturajan M, Rieger DK;
 PI Rothenberg ME, Shinkets RA, Smithson G, Spytek KA, Taupier RJ;
 PI Vernet CAM, Voss EZ, Zernhusen BD, Zhong M;
 XX WPI; 2003-381625/36.
 DR
 XX NOVX polypeptides and nucleic acids useful for diagnosing, preventing or
 PT treating NOVX-associated disorders, e.g. diabetes, obesity, cancer or
 PT dyslipidemia, and in chromosome mapping, tissue typing or
 PT pharmacogenomics.
 XX
 XX Example C; Page 392; 487pp; English.
 XX
 CC The present invention relates to novel human NOV proteins and their
 CC coding sequences (ACC72075-ACC72181 and ABR58363-ABR58469). The NOV
 CC proteins are useful in manufacturing a medicament for treating a syndrome
 CC associated with a human disease. The NOV proteins and coding sequences
 CC may be used to diagnose, treat or prevent metabolic disorders such as
 CC diabetes or obesity, infections, cachexia, cancer, neurodegenerative
 CC disorders such as Alzheimer's disease or Parkinson's disease, immune
 CC disorders, haematopoietic disorders and various dyslipidaemias. The
 CC present sequence is a probe, used in an example from the invention
 XX
 SQ Sequence 26 BP; 5 A; 8 C; 5 G; 8 T; 0 U; 0 Other;
 Query Match 1.1%; Score 26; DB 8; Length 26;
 Best Local Similarity 100.0%; Pred. No. 0.077;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 739 CTTTCTGCCCCCTGAGGAGTCAATT 764
 Db 1 CTTTCTGCCCCCTGAGGAGTCAATT 26
 RESULT 4

```
ACC72285
ID ACC72285 standard; DNA; 25 BP.
XX
AC ACC72285;
XX
DT 07-JUL-2003 (first entry)
XX
DE Ag5280 probe.
XX
KW Human; NOV; antidiabetic; anorectic; antibacterial; virucide;
KW immunomodulator; cytostatic; nootropic; neuroprotective;
KW antiparkinsonian; antilipemic; gene therapy; metabolic disorder;
KW diabetes; obesity; infection; cachexia; cancer; probe;
KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
KW immune disorder; haematopoietic disorder; dyslipidaemia; ss.
XX
OS Homo sapiens.
XX
PN WO2003029423-A2.
XX
PD 10-APR-2003.
XX
PF 02-OCT-2002; 2002WO-US031358.
XX
PR 02-OCT-2001; 2001US-0326483P.
PR 05-OCT-2001; 2001US-0327342P.
PR 09-OCT-2001; 2001US-0327917P.
PR 09-OCT-2001; 2001US-0328029P.
PR 09-OCT-2001; 2001US-0328044P.
PR 09-OCT-2001; 2001US-0328056P.
PR 12-OCT-2001; 2001US-0328849P.
PR 15-OCT-2001; 2001US-0329414P.
PR 17-OCT-2001; 2001US-0330142P.
PR 22-OCT-2001; 2001US-0341058P.
PR 24-OCT-2001; 2001US-0339266P.
PR 29-OCT-2001; 2001US-0343629P.
PR 29-OCT-2001; 2001US-0349575P.
PR 01-NOV-2001; 2001US-0346357P.
PR 12-APR-2002; 2002US-0371972P.
PR 12-APR-2002; 2002US-0371980P.
PR 17-APR-2002; 2002US-0373261P.
PR 19-APR-2002; 2002US-0373805P.
PR 23-APR-2002; 2002US-0374738P.
PR 16-MAY-2002; 2002US-0381101P.
PR 17-MAY-2002; 2002US-0381635P.
PR 29-MAY-2002; 2002US-0383830P.
PR 01-OCT-2002; 2002US-00262839.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Catterton E;
PI Edinger SR, Ellerman K, Gerlach VL, Gorman L, Guo X, Ji W;
PI Kekuda R, Leach MD, Li L, Miller CB, Patturajan M, Rieger DK;
PI Rothenberg ME, Shinkets RA, Smithson G, Spytek KA, Taupier RJ;
PI Vernet CAM, Voss EZ, Zerhusen BD, Zhong M;
XX
WPI; 2003-381625/36.
XX
NOVX polypeptides and nucleic acids useful for diagnosing, preventing or
PT treating NOVX-associated disorders, e.g. diabetes, obesity, cancer or
PT dyslipidemia, and in chromosome mapping, tissue typing or
PT pharmacogenomics.
XX
PS Example C; Page 392; 487pp; English.
XX
CC The present invention relates to novel human NOV proteins and their
CC coding sequences (ACC72075-ACC72181 and ABR58363-ABR58469). The NOV
CC proteins are useful in manufacturing a medicament for treating a syndrome
CC associated with a human disease. The NOV proteins and coding sequences
CC may be used to diagnose, treat or prevent metabolic disorders such as
CC diabetes or obesity, infections, cachexia, cancer, neurodegenerative
CC disorders such as Alzheimer's disease or Parkinson's disease, immune
CC disorders, haematopoietic disorders and various dyslipidaemias. The
```

```
CC present sequence is a probe, used in an example from the invention
XX
SQ Sequence 25 BP; 6 A; 7 C; 6 G; 6 T; 0 U; 0 Other;
XX
Query Match 1.1%; Score 25; DB 8; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 200 AACGAGGCTTCTATTCCAGCACGT 224
Db 1 AACGAGGCTTCTATTCCAGCACGT 25
RESULT 5
AAZ50444/c
ID AAZ50444 standard; DNA; 22 BP.
XX
AC AAZ50444;
XX
DT 18-MAY-2000 (first entry)
XX
DE EST R00504-specific primer 1.
XX
KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;
KW prostate epithelium; splicing mechanism; early diagnosis; progression;
KW precancerous cell; metastatic potential; non-neoplastic prostate disease;
KW expressed sequence tag; EST; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200005376-A1.
XX
PD 03-FEB-2000.
XX
PF 23-JUL-1999; 99WO-US016831.
XX
PR 24-JUL-1998; 98US-0094137P.
XX
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Chuauqui RF, Cole KA, Liotta LA;
XX
WPI; 2000-182700/16.
XX
Novel gene which is dysregulated in prostate cancer useful for diagnosing
PT cancer.
XX
PS Claim 5; Page 16; 51pp; English.
XX
CC The present sequence is the EST AAR00504-specific PCR primer, used for
CC amplification of sequences contained within the EST AAR00504. It is
CC useful to probe the gene overexpressed in prostate cancer epithelium and
CC to analyse the differential expression of the EST. The PB39 gene that is
CC dysregulated in prostate cancer is isolated from human pancreas cDNA
CC library and has homology to the EST AAR00504. PB39 gene is located on
CC chromosome 11p11.1-11.2. Abnormally high concentrations of PB39 are found
CC in prostate tissue derived from prostate cancer (PC) epithelium. PB39
CC sequence is useful for detection of precancerous or cancer cells in the
CC prostate. PB39 is useful for early diagnosis of the progression of
CC prostate cancer, especially in aggressive prostate carcinoma. It can also
CC distinguish PC from other non-neoplastic prostate disease. The diagnostic
CC method is selective and specific for various types of PC and also
CC facilitates identifying prostate cancer of differing aggressiveness and
CC metastatic potential
XX
SQ Sequence 22 BP; 8 A; 4 C; 6 G; 4 T; 0 U; 0 Other;
XX
Query Match 0.9%; Score 22; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1826 GCGTTTCTACTGTAAACATGC 1847
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Db      22 GGCTTTTCTACCTGTAACATGC 1
RESULT 6
ACD20493/c
ID      ACD20493 standard; DNA; 22 BP.
AC      ACD20493;
XX
CC      26-AUG-2003 (first entry)
XX
DE      Human NOVX DNA PCR primer #44.
XX
KW      Human; NOVX; inflammatory disorder; demyelination disease; stroke;
KW      renal disorder; infection; cardiomyopathy; atherosclerosis;
KW      hypertension; pancreatitis; Von Hippel-Lindau; endometriosis;
KW      scleroderma; cirrhosis; inflammatory bowel disease; Crohn's disease;
KW      haemophilia; autoimmune disease; allergy; AIDS;
KW      graft versus host disease; Alzheimer's disease; arthritis; pain;
KW      Parkinson's disease; Huntington's disease; obesity; diabetes;
KW      hair growth; hair loss; asthma; schizophrenia; anorectic; metabolic;
KW      lupus erythematosus; psoriasis; antidiabetic; glomerulonephritis;
KW      neutropenic; neuroprotective; cytostatic; antibacterial; virucide;
KW      protozoicide; antiarteriosclerotic; hypotensive; cerebroprotective;
KW      antinflammatory; gynaecological; antinfertility; dermatological;
KW      hepatotropic; haemostatic; immunosuppressive; antiallergic;
KW      antiarthritic; anticonvulsant; antiseborrhoeic; antiasthmatic;
KW      neuroleptic; anti-HIV; analgesic; nephrotropic; antipsoriatic; PCR;
KW      primer; ss.
XX
OS      Homo sapiens.
XX
PN      WO200298917-A2.
XX
PD      12-DEC-2002.
XX
PF      12-FEB-2002; 2002WO-US022049.
XX
PR      12-FEB-2001; 2001US-0268221P.
PR      13-FEB-2001; 2001US-0268496P.
PR      14-FEB-2001; 2001US-026846P.
PR      14-FEB-2001; 2001US-026866SP.
PR      15-FEB-2001; 2001US-0269136P.
PR      16-FEB-2001; 2001US-0269310P.
PR      16-FEB-2001; 2001US-0269530P.
PR      15-MAR-2001; 2001US-0276405P.
PR      16-MAR-2001; 2001US-0276399P.
PR      16-MAR-2001; 2001US-0276703P.
PR      23-MAR-2001; 2001US-0278199P.
PR      28-MAR-2001; 2001US-0279274P.
PR      30-MAR-2001; 2001US-0280238P.
PR      02-APR-2001; 2001US-0280899P.
PR      08-APR-2001; 2001US-0310797P.
PR      14-AUG-2001; 2001US-0312284P.
PR      14-SEP-2001; 2001US-0322294P.
PR      14-SEP-2001; 2001US-0322295P.
PR      18-OCT-2001; 2001US-0330293P.
PR      31-OCT-2001; 2001US-0335104P.
PR      31-OCT-2001; 2001US-0335109P.
PR      21-NOV-2001; 2001US-0332127P.
PR      28-NOV-2001; 2001US-0331772P.
XX
PA      (CURA-) CURAGEN CORP.
XX
PI      Guo X, Fernandes E, Li L, Kekuda R, Liu Y, Leite M, Spytek KA;
PI      Ji W, Casman SJ, Boldog FL, Patturajan M, Vernet CAM, Ballinger RA;
PI      Malyankar UM, Tchernev VT, Blalock AD, Gusev VY, Rastelli L;
PI      Mezes PD, Ellerman K, Heyes M, Herrmann JL, Shinkets RA, Ioime N;
PI      Pena CEA, Shenoy SG, Taupier RJ, Gerlach V, Gorman L;
XX
XX      WPI; 2003-148650/14.
XX
PT      Novel NOVX polypeptide useful for identifying an agent that binds to the
```

```
PT      polypeptide, and for treating cardiomyopathy, atherosclerosis,
PT      hypertension, infertility, scleroderma, cirrhosis, and inflammatory bowel
PT      disease.
XX
XX      Example 3; Page 488; 566pp; English.
PS
CC      The present invention relates to the isolation of novel human
CC      polypeptides referred to as NOVX (NOVI-NOV37), variants of these
CC      proteins, and the polynucleotide sequences encoding them. The NOVX
CC      proteins of the invention share homology to various types of protein
CC      families such as zinc finger-like proteins, enzymes, receptors, and
CC      lipoproteins. The sequences of the invention may be useful in the
CC      manufacture of a medicament for treating a syndrome associated with a
CC      human disease. For example they can be used to treat inflammatory
CC      disorders, demyelination disease, renal disorders, stroke, pancreatitis, Von
CC      Hippel-Lindau, endometriosis, fertility, scleroderma, cirrhosis,
CC      inflammatory bowel disease, Crohn's disease, haemophilia, autoimmune
CC      diseases, allergies, graft versus host disease, Alzheimer's disease,
CC      arthritis, Parkinson's disease, Huntington's disease, obesity, diabetes,
CC      acne, hair growth/loss, asthma, schizophrenia, AIDS, pain.
CC      glomerulonephritis, lupus erythematosus, and psoriasis. The present
CC      sequence represents a PCR primer used in the examples of the present
CC      invention. Note: SEQ ID Nos 113-460 are known sequences used for homology
CC      purposes
XX
SQ      Sequence 22 BP; 3 A; 7 C; 3 G; 9 T; 0 U; 0 Other;
Query Match      0.9%; Score 22; DB 8; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      767 ACGAAGAGATCAAGCTGAGTG 788
Db      22 ACGAAGAGATCAAGCTGAGTG 1
RESULT 7
ACD20491
ID      ACD20491 standard; DNA; 22 BP.
XX
XX      ACD20491;
XX
DT      26-AUG-2003 (first entry)
XX
DE      Human NOVX DNA PCR primer #43.
XX
KW      Human; NOVX; inflammatory disorder; demyelination disease; stroke;
KW      renal disorder; infection; cardiomyopathy; atherosclerosis; acne;
KW      hypertension; pancreatitis; Von Hippel-Lindau; endometriosis; fertility;
KW      scleroderma; cirrhosis; inflammatory bowel disease; Crohn's disease;
KW      haemophilia; autoimmune disease; allergy; AIDS;
KW      graft versus host disease; Alzheimer's disease; arthritis; pain;
KW      Parkinson's disease; Huntington's disease; obesity; diabetes;
KW      hair growth; hair loss; asthma; schizophrenia; anorectic; metabolic;
KW      lupus erythematosus; psoriasis; antidiabetic; glomerulonephritis;
KW      neutropenic; neuroprotective; cytostatic; antibacterial; virucide;
KW      protozoicide; antiarteriosclerotic; hypotensive; cerebroprotective;
KW      antinflammatory; gynaecological; antinfertility; dermatological;
KW      hepatotropic; haemostatic; immunosuppressive; antiallergic;
KW      antiarthritic; anticonvulsant; antiseborrhoeic; antiasthmatic;
KW      neuroleptic; anti-HIV; analgesic; nephrotropic; antipsoriatic; PCR;
KW      primer; ss.
XX
XX      Homo sapiens.
XX
XX      WO200298917-A2.
XX
PD      12-DEC-2002.
XX
PF      12-FEB-2002; 2002WO-US022049.
XX
PR      12-FEB-2001; 2001US-0268221P.
PR      13-FEB-2001; 2001US-0268496P.
PR      14-FEB-2001; 2001US-026846P.
PR      14-FEB-2001; 2001US-026866SP.
PR      15-FEB-2001; 2001US-0269136P.
PR      16-FEB-2001; 2001US-0269310P.
PR      16-FEB-2001; 2001US-0269530P.
PR      15-MAR-2001; 2001US-0276405P.
PR      16-MAR-2001; 2001US-0276399P.
PR      16-MAR-2001; 2001US-0276703P.
PR      23-MAR-2001; 2001US-0278199P.
PR      28-MAR-2001; 2001US-0279274P.
PR      30-MAR-2001; 2001US-0280238P.
PR      02-APR-2001; 2001US-0280899P.
PR      08-APR-2001; 2001US-0310797P.
PR      14-AUG-2001; 2001US-0312284P.
PR      14-SEP-2001; 2001US-0322294P.
PR      14-SEP-2001; 2001US-0322295P.
PR      18-OCT-2001; 2001US-0330293P.
PR      31-OCT-2001; 2001US-0335104P.
PR      31-OCT-2001; 2001US-0335109P.
PR      21-NOV-2001; 2001US-0332127P.
PR      28-NOV-2001; 2001US-0331772P.
XX
PA      (CURA-) CURAGEN CORP.
XX
PI      Guo X, Fernandes E, Li L, Kekuda R, Liu Y, Leite M, Spytek KA;
PI      Ji W, Casman SJ, Boldog FL, Patturajan M, Vernet CAM, Ballinger RA;
PI      Malyankar UM, Tchernev VT, Blalock AD, Gusev VY, Rastelli L;
PI      Mezes PD, Ellerman K, Heyes M, Herrmann JL, Shinkets RA, Ioime N;
PI      Pena CEA, Shenoy SG, Taupier RJ, Gerlach V, Gorman L;
XX
XX      WPI; 2003-148650/14.
XX
PT      Novel NOVX polypeptide useful for identifying an agent that binds to the
```

PR 13-FEB-2001; 2001US-0268496P.
PR 14-FEB-2001; 2001US-0268646P.
PR 14-FEB-2001; 2001US-0268646P.
PR 15-FEB-2001; 2001US-0268665P.
PR 16-FEB-2001; 2001US-0269136P.
PR 16-FEB-2001; 2001US-0269310P.
PR 16-FEB-2001; 2001US-0269530P.
PR 15-MAR-2001; 2001US-0276405P.
PR 16-MAR-2001; 2001US-0276399P.
PR 16-MAR-2001; 2001US-0276703P.
PR 23-MAR-2001; 2001US-0278199P.
PR 28-MAR-2001; 2001US-0279274P.
PR 30-MAR-2001; 2001US-0280238P.
PR 02-APR-2001; 2001US-0280899P.
PR 08-AUG-2001; 2001US-0310797P.
PR 14-AUG-2001; 2001US-0311284P.
PR 14-SEP-2001; 2001US-0322949P.
PR 14-SEP-2001; 2001US-0322295P.
PR 18-OCT-2001; 2001US-0330293P.
PR 31-OCT-2001; 2001US-0335104P.
PR 31-OCT-2001; 2001US-0335109P.
PR 21-NOV-2001; 2001US-0332127P.
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PA (CURA-) CURAGEN CORP.
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XX Guo X, Fernandes E, Li L, Kekuda R, Liu Y, Leite M, Spytek KA;
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PI Mezes PD, Ellerman K, Heyes M, Herrmann JL, Shinkets RA, Ioime N;
PI Pena CBA, Shenoy SG, Taupier RJ, Gerlach V, Gorman L;
XX WPI; 2003-148650/14.
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XX Novel NOVX polypeptide useful for identifying an agent that binds to the
PT polypeptide, and for treating cardiomyopathy, atherosclerosis,
PT hypertension, infertility, scleroderma, cirrhosis, and inflammatory bowel
PT disease.
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PS Example 3; Page 488; 566pp; English.
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CC The present invention relates to the isolation of novel human
CC polypeptides referred to as NOVX (NOVI-NOV37), variants of these
CC proteins, and the polynucleotide sequences encoding them. The NOVX
CC proteins of the invention share homology to various types of protein
CC families such as zinc finger-like proteins, enzymes, receptors, and
CC lipoproteins. The sequences of the invention may be useful in the
CC manufacture of a medicament for treating a syndrome associated with a
CC human disease. For example they can be used to treat inflammatory
CC disorders, demyelination disease, renal disorders, infections,
CC cardiomyopathy, atherosclerosis, hypertension, stroke, pancreatitis, Von
CC Hippel-Lindau, endometriosis, fertility, scleroderma, cirrhosis,
CC inflammatory bowel disease, Crohn's disease, haemophilia, autoimmune
CC diseases, allergies, graft versus host disease, Alzheimer's disease,
CC arthritis, Parkinson's disease, Huntington's disease, obesity, diabetes,
CC acne, hair growth/loss, asthma, schizophrenia, AIDS, pain,
CC glomerulonephritis, lupus erythematosus, and psoriasis. The present
CC sequence represents a PCR primer used in the examples of the present
CC invention. Note: SEQ ID Nos 113-460 are known sequences used for homology
CC purposes
XX
SQ Sequence 22 BP; 3 A; 7 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 0.9%; Score 22; DB 8; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 692 GCCTGCCTTATCTTTCTGAAC 713

Db 1 GCCTGCCTTATCTTTCTGAAC 22

RESULT 8
ACC72281

ID ACC72281 standard; DNA; 22 BP.
XX
AC ACC72281;
XX
DT 07-JUL-2003 (first entry)
XX
DE Forward Ag4870 PCR primer.
XX
KW Human; NOV; antidiabetic; anorectic; antibacterial; virucide;
KW immunomodulator; cytostatic; nootropic; neuroprotective;
KW antiparkinsonian; antilipemic; gene therapy; metabolic disorder;
KW diabetes; obesity; infection; cachexia; cancer; PCR; primer;
KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
KW immune disorder; haematopoietic disorder; dyslipidaemia; ss.
XX
OS Homo sapiens.
XX
PN WO2003029423-A2.
XX
PD 10-APR-2003.
XX
PF 02-OCT-2002; 2002WO-US031358.
XX
PR 02-OCT-2001; 2001US-0326483P.
PR 05-OCT-2001; 2001US-0327342P.
PR 09-OCT-2001; 2001US-0327917P.
PR 09-OCT-2001; 2001US-0328029P.
PR 09-OCT-2001; 2001US-0328044P.
PR 09-OCT-2001; 2001US-0328056P.
PR 12-OCT-2001; 2001US-0328849P.
PR 15-OCT-2001; 2001US-0329414P.
PR 17-OCT-2001; 2001US-0330142P.
PR 22-OCT-2001; 2001US-0341056P.
PR 24-OCT-2001; 2001US-0339266P.
PR 24-OCT-2001; 2001US-0343629P.
PR 29-OCT-2001; 2001US-0349575P.
PR 01-NOV-2001; 2001US-0346357P.
PR 12-APR-2002; 2002US-0371972P.
PR 12-APR-2002; 2002US-0371980P.
PR 17-APR-2002; 2002US-0373261P.
PR 19-APR-2002; 2002US-0373805P.
PR 23-APR-2002; 2002US-0374738P.
PR 16-MAY-2002; 2002US-0381101P.
PR 17-MAY-2002; 2002US-0381635P.
PR 29-MAY-2002; 2002US-0383830P.
PR 01-OCT-2002; 2002US-00262839.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Catterton E;
PI Edinger SR, Ellerman K, Gerlach VL, Gorman L, Guo X, Ji W;
PI Kekuda R, Leach MD, Li L, Miller CE, Patturajan M, Rieger DK;
PI Rothenberg ME, Shinkets RA, Smithson G, Spytek KA, Taupier RJ;
PI Vernet CAM, Voss EZ, Zerhusen BD, Zhong M;
XX WPI; 2003-381625/36.
XX
XX NOVX polypeptides and nucleic acids useful for diagnosing, preventing or
PT treating NOVX-associated disorders, e.g. diabetes, obesity, cancer or
PT dyslipidemia, and in chromosome mapping, tissue typing or
PT pharmacogenomics.
XX
XX Example C; Page 392; 487pp; English.
PS
XX
CC The present invention relates to novel human NOV proteins and their
CC coding sequences (ACC72075-ACC72181 and ABR58363-ABR58469). The NOV
CC proteins are useful in manufacturing a medicament for treating a syndrome
CC associated with a human disease. The NOV proteins and coding sequences
CC may be used to diagnose, treat or prevent metabolic disorders such as
CC diabetes or obesity, infections, cachexia, cancer, neurodegenerative
CC disorders such as Alzheimer's disease or Parkinson's disease, immune
CC disorders, haematopoietic disorders and various dyslipidaemias. The
CC present sequence is a PCR primer, used in an example from the invention


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XX SQ Sequence 22 BP; 3 A; 7 C; 3 G; 9 T; 0 U; 0 Other;
Query Match 0.9%; Score 22; DB 8; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 692 GCGTGCCTTATCTTTCTGAAGT 713
Dd 1 GCGTGCCTTATCTTTCTGAAGT 22

RESULT 9
ACC72283/c
ID ACC72283 standard; DNA; 22 BP.
XX AC
XX ACC72283;
XX DT 07-JUL-2003 (first entry)
XX DE Reverse Ag4870 PCR primer.
XX Hm
XX Immunomodulator; cytostatic; antitubercular; virucide;
XX antiparkinsonian; antileptemic; gene therapy; metabolic disorder;
XX diabetes; obesity; infection; cachexia; cancer; PCR; primer;
XX neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
XX immune disorder; haematopoietic disorder; dyslipidaemia; ss.
XX Homo sapiens.
XX WO2003029423-A2.
XX 10-APR-2003.
XX 02-OCT-2002; 2002WO-US031358.
XX 02-OCT-2001; 2001US-0326483P.
XX 05-OCT-2001; 2001US-0327342P.
XX 09-OCT-2001; 2001US-0327917P.
XX 09-OCT-2001; 2001US-0328029P.
XX 09-OCT-2001; 2001US-0328044P.
XX 09-OCT-2001; 2001US-0328056P.
XX 12-OCT-2001; 2001US-0328849P.
XX 15-OCT-2001; 2001US-0329414P.
XX 17-OCT-2001; 2001US-0330142P.
XX 22-OCT-2001; 2001US-0341058P.
XX 24-OCT-2001; 2001US-0339266P.
XX 24-OCT-2001; 2001US-0343629P.
XX 29-OCT-2001; 2001US-0349575P.
XX 01-NOV-2001; 2001US-0346357P.
XX 12-APR-2002; 2002US-0371972P.
XX 12-APR-2002; 2002US-0371980P.
XX 17-APR-2002; 2002US-0373261P.
XX 19-APR-2002; 2002US-0373805P.
XX 23-APR-2002; 2002US-0374738P.
XX 16-MAY-2002; 2002US-0381101P.
XX 17-MAY-2002; 2002US-0381635P.
XX 29-MAY-2002; 2002US-0383830P.
XX 01-OCT-2002; 2002US-0026283P.
(CURA-) CURAGEN CORP.
XX
XX Alsbrook JP, Anderson DW, Boldog FL, Burgess CE, Catterton E;
XX Edinger SR, Eilerman K, Gerlach VL, Gorman L, Guo X, Ji W;
XX Kekuda R, Leach MD, Li L, Miller CE, Patturajan M, Rieger DK;
XX Rothenberg ME, Shimkets RA, Smithson G, Spytek KA, Taupier RJ;
XX Vernet CAM, Voss EZ, Zerhusen BD, Zhong M;
XX WPI; 2003-381625/36.
XX NOVX polypeptides and nucleic acids useful for diagnosing, preventing or
XX treating NOVX-associated disorders, e.g. diabetes, obesity, cancer or
PT
```

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PT dyslipidemia, and in chromosome mapping, tissue typing or
XX pharmacogenomics.
XX Example C; Page 392; 487pp; English.
XX The present invention relates to novel human NOV proteins and their
XX coding sequences (ACC72075-ACC72181 and ABR58363-ABR58469). The NOV
XX proteins are useful in manufacturing a medicament for treating a syndrome
XX associated with a human disease. The NOV proteins and coding sequences
XX may be used to diagnose, treat or prevent metabolic disorders such as
XX diabetes or obesity, infections, cachexia, cancer, neurodegenerative
XX disorders such as Alzheimer's disease or Parkinson's disease, immune
XX disorders, haematopoietic disorders and various dyslipidaemias. The
XX present sequence is a PCR primer, used in an example from the invention
XX SQ Sequence 22 BP; 3 A; 7 C; 3 G; 9 T; 0 U; 0 Other;
Query Match 0.9%; Score 22; DB 8; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 767 ACGAAGAGATCAAGCTGAGTG 788
Dd 22 ACGAAGAGATCAAGCTGAGTG 1

RESULT 10
ADM94850
ID ADM94850 standard; DNA; 22 BP.
XX AC
XX ADM94850;
XX DT 01-JUL-2004 (first entry)
XX DE Testicular seminoma associated gene forward RT-PCR primer SEQ ID NO:11.
XX KW testicular seminoma; diagnosis; testicular seminoma-associated gene;
XX cytostatic; vaccine; human; reverse transcription; PCR; primer; ss.
XX Homo sapiens.
XX Synthetic.
XX WO2004031410-A2.
XX 15-APR-2004.
XX 12-SEP-2003; 2003WO-JP011711.
XX 30-SEP-2002; 2002US-0414677P.
XX (ONCO-) ONCOTHERAPY SCI INC.
XX (UITY) UNIV TOKYO.
XX Nakamura Y, Katagiri T;
XX WPI; 2004-330203/30.
XX Diagnosing, treating or preventing testicular seminoma (TS) or a
XX predisposition to developing TS in a subject, comprises determining a
XX level of expression of a TS-associated gene.
XX Example 2; SEQ ID NO 11; 120pp; English.
XX The present invention describes a method for diagnosing testicular
XX seminoma (TS) or a predisposition to developing TS in a subject. The
XX method comprises determining a level of expression of a TS-associated
XX gene in a patient derived biological sample, where an increase or
XX decrease of the level compared to a normal control level of the gene
XX indicates that the subject suffers from or is at risk of developing TS.
XX Also described: (1) a TS reference expression profile, comprising a
XX pattern of gene expression of two or more genes, i.e. TS 1-939; (2) a
XX method of screening for a compound for treating or preventing TS; (3) a
XX kit comprising a detection reagent which binds to two or more nucleic
```

CC acid sequences, i.e. TS 1-939; (4) an array comprising a nucleic acid
CC which binds to two or more nucleic acid sequences, i.e. TS 1-939; (5) a
CC method of treating or preventing TS in a subject; (6) a composition, for
CC treating or preventing TS, comprising a pharmaceutical amount of: (a) an
CC antisense polynucleotide or small interfering RNA against a
CC polynucleotide, i.e. TS 1-346; (b) an antibody or its fragment thereof
CC that binds to a protein encoded by any one gene, i.e. TS 1-346; and (c)
CC the compound selected by the method of (2) as an active ingredient and a
CC pharmaceutical carrier; and (7) a small interfering RNA, where the sense
CC strand comprises the nucleotide sequence of gtaggacactttatctgc or
CC gtagcatgtctctcca (SEQ ID NOS:85 or 86). The composition has cytostatic
CC activity, and can be used in vaccines. The method is useful for diagnosing TS
CC or a predisposition to developing TS in a subject. The antisense
CC composition, siRNA composition, antibody, compound, the polynucleotide
CC and the encoded polypeptide are useful in treating or preventing TS. The
CC present sequence represents a reverse transcription (RT) PCR primer which
CC is used in the identification of TS-associated genes in an example from
CC the present invention.

XX Sequence 22 BP; 6 A; 5 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.9%; Score 22; DB 12; Length 22;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2123 CACACATGCAATGTCTGTG 2144

Db 1 CACAACATGCAATGTCTGTG 22

RESULT 11

ADM94851/c

ID ADM94851 standard; DNA; 22 BP.

XX ADM94851;

AC 01-JUL-2004 (first entry)

XX Testicular seminoma associated gene reverse RT-PCR primer SEQ ID NO:12.

XX testicular seminoma; diagnosis; testicular seminoma-associated gene;

KW cytostatic; vaccine; human; reverse transcription; PCR; primer; ss.

XX Homo sapiens.

OS Synthetic.

XX WO2004031410-A2.

PN 15-APR-2004.

XX 12-SEP-2003; 2003WO-JP011711.

XX 30-SEP-2002; 2002US-0414677P.

XX (ONCO-) ONCOTHERAPY SCI INC.

XX (UITY) UNIV TOKYO.

XX Nakamura Y, Katagiri T;

XX WPI; 2004-330203/30.

XX Diagnosing, treating or preventing testicular seminoma (TS) or a

XX predisposition to developing TS in a subject, comprises determining a

XX level of expression of a TS-associated gene.

XX Example 2; SEQ ID NO 12; 120pp; English.

XX The present invention describes a method for diagnosing testicular

XX seminoma (TS) or a predisposition to developing TS in a subject. The

XX method comprises determining a level of expression of a TS-associated

XX gene in a patient derived biological sample, where an increase or

XX decrease of the level compared to a normal control level of the gene

XX indicates that the subject suffers from or is at risk of developing TS.

CC Also described: (1) a TS reference expression profile, comprising a
CC pattern of gene expression of two or more genes, i.e. TS 1-939; (2) a
CC method of screening for a compound for treating or preventing TS; (3) a
CC kit comprising a detection reagent which binds to two or more nucleic
CC acid sequences, i.e. TS 1-939; (4) an array comprising a nucleic acid
CC which binds to two or more nucleic acid sequences, i.e. TS 1-939; (5) a
CC method of treating or preventing TS in a subject; (6) a composition, for
CC treating or preventing TS, comprising a pharmaceutical amount of: (a) an
CC antisense polynucleotide or small interfering RNA against a
CC polynucleotide, i.e. TS 1-346; (b) an antibody or its fragment thereof
CC that binds to a protein encoded by any one gene, i.e. TS 1-346; and (c)
CC the compound selected by the method of (2) as an active ingredient and a
CC pharmaceutical carrier; and (7) a small interfering RNA, where the sense
CC strand comprises the nucleotide sequence of gtaggacactttatctgc or
CC gtagcatgtctctcca (SEQ ID NOS:85 or 86). The composition has cytostatic
CC activity, and can be used in vaccines. The method is useful for diagnosing TS
CC or a predisposition to developing TS in a subject. The antisense
CC composition, siRNA composition, antibody, compound, the polynucleotide
CC and the encoded polypeptide are useful in treating or preventing TS. The
CC present sequence represents a reverse transcription (RT) PCR primer which
CC is used in the identification of TS-associated genes in an example from
CC the present invention.

XX Sequence 22 BP; 6 A; 7 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.9%; Score 22; DB 12; Length 22;

Best Local Similarity 100.0%; Pred. No. 7.5;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2278 GCTGCTGCAAGTCTTAGAGGA 2299

Db 22 GCTGCTGCAAGTCTTAGAGGA 1

RESULT 12

AAZ50446

ID AAZ50446 standard; DNA; 20 BP.

XX AAZ50446;

AC 18-MAY-2000 (first entry)

XX Human PB39 specific 3' RACE primer.

XX PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;

KW prostate epithelium; splicing mechanism; early diagnosis; progression;

KW precancerous cell; metastatic potential; non-neoplastic prostate disease;

KW expressed sequence tag; EST; PCR primer; ss.

XX Homo sapiens.

OS WO200005376-A1.

XX 03-FEB-2000.

XX 23-JUL-1999; 99WO-US016831.

XX 24-JUL-1998; 98US-0094137P.

XX (USSH) US DEPT HEALTH & HUMAN SERVICES.

XX Chuaqui RF, Cole KA, Liotta LA;

XX WPI; 2000-182700/16.

XX Novel gene which is dysregulated in prostate cancer useful for diagnosing

XX cancer.

XX Claim 5; Page 18; Sipp; English.

XX The present sequence is the human PB39 3' specific RACE primer, from EST

XX clone AAR00504. It is used to determine the complete nucleotide sequence

XX of PB39 cDNA, isolated from human pancreas cDNA library using RACE. The

CC PB39 gene that is dysregulated in prostate cancer has homology to the EST
 CC AAR00504. PB39 gene is located on chromosome 11p11.1-11.2. Abnormally
 CC high concentrations of PB39 are found in prostate tissue derived from
 CC prostate cancer (PC) epithelium. PB39 sequence is useful for detection of
 CC precancerous or cancer cells in the prostate. PB39 is useful for early
 CC diagnosis of the progression of prostate cancer, especially in aggressive
 CC prostate carcinoma. It can also distinguish PC from other non-neoplastic
 CC prostate disease. The diagnostic method is selective and specific for
 CC various types of PC and also facilitates identifying prostate cancer of
 CC differing aggressiveness and metastatic potential
 XX
 SQ Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 74;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1747 GACCGCATAGACTTCTCAGA 1766

Db 1 GACCGCATAGACTTCTCAGA 20

RESULT 13

ACC72284
 ID ACC72284 standard; DNA; 20 BP.

XX ACC72284;

XX 07-JUL-2003 (first entry)

DE Forward Ags280 PCR primer.

XX Human; NOV; antidiabetic; anorectic; antibacterial; virucide;
 KW immunomodulator; cytostatic; nootropic; neuroprotective;
 KW antiparkinsonian; antilipaeamic; gene therapy; metabolic disorder;
 KW diabetes; obesity; infection; cachexia; cancer; PCR; primer;
 KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
 KW immune disorder; haematopoietic disorder; dyslipidaemia; ss.

XX Homo sapiens.

XX WO2003029423-A2.

XX 10-APR-2003.

XX 02-OCT-2002; 2002WO-US031358.

XX 02-OCT-2001; 2001US-0326483P.

PR 05-OCT-2001; 2001US-0327342P.

PR 09-OCT-2001; 2001US-0327917P.

PR 09-OCT-2001; 2001US-0328029P.

PR 09-OCT-2001; 2001US-0328044P.

PR 09-OCT-2001; 2001US-0328056P.

PR 12-OCT-2001; 2001US-0328849P.

PR 15-OCT-2001; 2001US-0329414P.

PR 17-OCT-2001; 2001US-0330142P.

PR 22-OCT-2001; 2001US-0341058P.

PR 24-OCT-2001; 2001US-0339266P.

PR 24-OCT-2001; 2001US-0343629P.

PR 29-OCT-2001; 2001US-0349575P.

PR 01-NOV-2001; 2001US-0346357P.

PR 12-APR-2002; 2002US-0371972P.

PR 12-APR-2002; 2002US-0371980P.

PR 17-APR-2002; 2002US-0373261P.

PR 19-APR-2002; 2002US-0373605P.

PR 23-APR-2002; 2002US-0374738P.

PR 16-MAY-2002; 2002US-0381101P.

PR 17-MAY-2002; 2002US-0381635P.

PR 29-MAY-2002; 2002US-0383630P.

PR 01-OCT-2002; 2002US-00262839.

XX (CURA-) CURAGEN CORP.

XX PA

PI Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Catterton E;
 PI Edinger SR, Ellerman K, Gerlach VL, Gorman L, Guo X, Ji W;
 PI Kekuda R, Leach MD, Li L, Miller CE, Patturajan M, Rieger DK;
 PI Rothenberg ME, Shimkets RA, Smithson G, Spytek KA, Taupier RJ;
 PI Vernet CAM, Voss EZ, Zerhusen BD, Zhong M;
 XX WPI; 2003-381625/36.

XX NOVX polypeptides and nucleic acids useful for diagnosing, preventing or
 PT treating NOVX-associated disorders, e.g. diabetes, obesity, cancer or
 PT dyslipidemia, and in chromosome mapping, tissue typing or
 PT pharmacogenomics.

XX Example C; Page 392; 487pp; English.

XX The present invention relates to novel human NOV proteins and their
 CC coding sequences (ACC72075-ACC72181 and ABR58363-ABR58469). The NOV
 CC proteins are useful in manufacturing a medicament for treating a syndrome
 CC associated with a human disease. The NOV proteins and coding sequences
 CC may be used to diagnose, treat or prevent metabolic disorders such as
 CC diabetes or obesity, infections, cachexia, cancer, neurodegenerative
 CC disorders such as Alzheimer's disease or Parkinson's disease, immune
 CC disorders, haematopoietic disorders and various dyslipidaemias. The
 CC present sequence is a PCR primer, used in an example from the invention

XX Sequence 20 BP; 2 A; 6 C; 4 G; 8 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 8; Length 20;

Best Local Similarity 100.0%; Pred. No. 74;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 GTCCTCTGTGATCATCTG 196

Db 1 GTCCTCTGTGATCATCTG 20

RESULT 14

ADM97687/c

ID ADM97687 standard; DNA; 20 BP.

XX ADM97687;

XX 01-JUL-2004 (first entry)

XX Human prostate cancer associated gene POV1 PCR primer #2.

XX ss; primer; gene therapy; vaccine; cytostatic; prostate cancer;

XX intraepithelial neoplasia; prostate cancer-associated gene;

XX PRC-associated gene; PRC; PCR.

XX Homo sapiens.

XX WO2004031414-A2.

XX 15-APR-2004.

XX 22-SEP-2003; 2003WO-JP012073.

XX 30-SEP-2002; 2002US-0414873P.

XX (ONCO-) ONCOTHERAPY SCI INC.

XX (UYTY) UNIV TOKYO.

XX Nakamura Y, Katagiri T, Nakagawa H, Nakatsuru S;

XX WPI; 2004-330207/30.

XX Diagnosing prostate cancer or prostatic intraepithelial neoplasia
 PT comprises determining a level of expression of a PRC-associated gene in a
 PT patient derived biological sample.

XX Example 2; Page 66; 92pp; English.

XX PS

CC The present invention relates to a method of diagnosing prostate cancer
CC (PRC) and /or prostatic intraepithelial neoplasia (PIN) or a
CC predisposition to developing either or both of PRC and PIN in a subject,
CC comprising determining a level of expression of a PRC-associated gene in
CC a patient derived biological sample. The method is useful in diagnosing
CC either or both of PRC and PIN or a predisposition to developing either or
CC both of PRC and PIN in a subject. The methods, compounds and compositions
CC are useful in treating or preventing either or both of PRC and PIN. The
CC polypeptides are useful as vaccines against either or both PRC and PIN.
CC The present sequence is a PCR primer used in the exemplification of the
CC invention.

SQ Sequence 20 BP; 1 A; 7 C; 0 G; 12 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2294 AGAGGAATAAAAGGGAAG 2313
DB 20 AGAGGAATAAAAGGGAAG 1
|||||

RESULT 15
ADM97686
ID ADM97686 standard; DNA; 20 BP.
XX AC ADM97686;
XX DT 01-JUL-2004 (first entry)
XX DE Human prostate cancer associated gene POV1 PCR primer #1.
XX ss; primer; gene therapy; vaccine; cytostatic; prostate cancer;
KW intraepithelial neoplasia; prostate cancer-associated gene;
KW PRC-associated gene; PRC; PCR.
XX OS Homo sapiens.
XX PN WO2004031414-A2.
XX PD 15-APR-2004.
XX PF 22-SEP-2003; 2003WO-JP012073.
XX PR 30-SEP-2002; 2002US-0414873P.
XX PA (ONCO-) ONCOTHERAPY SCI INC.
XX PY (UNTY) UNIV TOKYO.
XX PI Nakamura Y, Katagiri T, Nakagawa H, Nakatsuru S;
XX WPI; 2004-330207/30.
XX DR Diagnosing prostate cancer or prostatic intraepithelial neoplasia
PT comprises determining a level of expression of a PRC-associated gene in a
PT patient derived biological sample.
XX Example 2; Page 66; 92pp; English.

CC The present invention relates to a method of diagnosing prostate cancer
CC (PRC) and /or prostatic intraepithelial neoplasia (PIN) or a
CC predisposition to developing either or both of PRC and PIN in a subject,
CC comprising determining a level of expression of a PRC-associated gene in
CC a patient derived biological sample. The method is useful in diagnosing
CC either or both of PRC and PIN or a predisposition to developing either or
CC both of PRC and PIN in a subject. The methods, compounds and compositions
CC are useful in treating or preventing either or both of PRC and PIN. The
CC polypeptides are useful as vaccines against either or both PRC and PIN.
CC The present sequence is a PCR primer used in the exemplification of the
CC invention.

SQ Sequence 20 BP; 1 A; 7 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 0.9%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2027 GGTGCTCTTATCTCCTTCT 2046
DB 1 GGTGCTCTTATCTCCTTCT 20
|||||

RESULT 16
ADK13463
ID ADK13463 standard; DNA; 17 BP.
XX AC ADK13463;
XX DT 20-MAY-2004 (first entry)
XX DE Human glioma endothelial marker (GEM) long tag oligonucleotide.
XX KW glioma; brain tissue; neoplastic; glioma endothelial marker; GEM;
KW anticancer; antiangioma; immune response; cytostatic;
KW multi-drug sensitive glioma; human; long tag; ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX PN WO2004016758-A2.
XX PD 26-FEB-2004.
XX PF 15-AUG-2003; 2003WO-US025614.
XX PR 15-AUG-2002; 2002US-0403390P.
XX PR 01-APR-2003; 2003US-0458978P.
XX PA (GENZ) GENZYME CORP.
XX PY (UYJO) UNIV JOHNS HOPKINS.
XX PI Madden SI, Wang CJ, Cook BP, Lattera J, Walter K;
XX WPI; 2004-247973/23.
XX DR Diagnosing glioma by detecting expression product of any one of 255
PT genes, glioma endothelial markers, in brain tissue sample suspected of
PT being neoplastic, and comparing the expression with expression in normal
PT brain tissue sample.
XX Example 10; Page 71; 114pp; English.

CC The present invention describes a method (M1) for aiding in the diagnosis
CC of glioma. (M1) involves detecting an expression product of at least one
CC gene (I) in a first brain tissue sample (T) suspected of being
CC neoplastic, where (I) is chosen from any one of 255 genes (glioma
CC endothelial markers (GEMs)) as given in specification, and comparing the
CC expression of (I) in (T) with expression of (I) in a second normal brain
CC tissue sample (R), where increased expression of (I) in (T) relative to
CC (R), identifies (T) as likely to be neoplastic. Also described: (1)
CC treating (M2) glioma involves contacting cells of the glioma with an
CC antibody that specifically binds to a extracellular epitope; (2)
CC identifying (M3) a test compound as potential anticancer or antiangioma
CC drug involves contacting a test compound with the cell which expresses
CC (I), monitoring an expression product of the at least one gene and
CC identifying test compound as a potential anticancer drug if it decreases
CC the expression of at least one gene; (3) identifying (M4) a test compound
CC as potential anticancer or antiangioma drug involves contacting a test
CC compound with the cell which expresses mRNA of at least one gene
CC identified by a tag as described above, monitoring mRNA of the gene, and
CC identifying the test compound as a potential anticancer drug if it
CC decreases the expression of at least one gene; and (4) inducing (M5) an
CC immune response to glioma involves administering to a mammal, a protein
CC or (I). (I) have cytostatic activities, and can be used to trigger immune
CC destruction of glioma cells, and as immune response inducers. (M1) is

CC useful for aiding in diagnosing glioma. (M2) is useful for treating multi
 CC -drug sensitive glioma in a human. (M5) is useful for inducing an immune
 CC response to a glioma in a mammal having glioma or in a mammal who has had
 CC a glioma surgically removed. The present sequence represents a human GEM
 CC long tag oligonucleotide, which is used in the exemplification of the
 CC present invention.

XX Sequence 17 BP; 2 A; 2 C; 12 G; 1 T; 0 U; 0 Other;
 SQ Query Match 0.7%; Score 17; DB 12; Length 17;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 GGGCTGGAGGGGGCA 19
 |||||
 Db 1 GGGCTGGAGGGGGCA 17

RESULT 17
 AAC92680/c
 ID AAC92680 standard; DNA; 20 BP.
 XX
 AC AAC92680;
 XX
 DT 27-MAR-2001 (first entry)
 XX
 DE Human Nck-2 phosphorothioate antisense oligonucleotide, SEQ ID NO:41.
 XX
 KW Human Nck-2; adapter protein; Nck adapter protein; hNck-beta; Grb4;
 KW signal transduction; SH2 domain; SH3 domain; src homology domain;
 KW integrin signalling; receptor tyrosine kinase signalling;
 KW growth factor receptor signalling; PINCH; v-Abl; Ras; Sos;
 KW transcriptional activation; cancer; tumour; leukaemia; breast cancer;
 KW expression inhibition; phosphorothioate; antisense oligonucleotide; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6165728-A.
 XX
 PD 26-DEC-2000.
 XX
 PF 19-NOV-1999; 99US-00444053.
 XX
 PR 19-NOV-1999; 99US-00444053.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Ward DT, Cowseert LM;
 XX
 DR WPI; 2001-090480/10.
 XX
 PT Novel antisense compound which inhibits expression of human nck-2 useful
 PT for treating disease or condition associated with expression of nck-2,
 PT and as research reagents, kits and diagnostics.

PS Claim 1; Col 41-42; 38pp; English.
 XX
 CC Sequences AAC92649-C92728 represent antisense oligonucleotides targetted
 CC to the human Nck-2 gene, which inhibit its expression. The antisense
 CC oligonucleotides were designed to target different regions of the human
 CC Nck-2 mRNA, and were analysed for their effect on Nck-2 mRNA levels by
 CC quantitative real-time PCR. Nck-2 (also known as Nck adapter protein,
 CC hNck-beta and Grb4), contains both SH2 and SH3 src homology domains and
 CC functions as an adapter protein in integrin-mediated and receptor
 CC tyrosine kinase-mediated signal transduction, particularly in growth
 CC factor receptor signalling. Moreover, Nck-2 participates in pathways that
 CC connect growth factor receptor signalling and integrin signalling via its
 CC interaction with PINCH, a LIM domain-containing adapter protein which is
 CC involved in integrin, growth factor and Wnt signalling pathways. Nck-2
 CC also interacts with EGF (epidermal growth factor) and PDGF (platelet-
 CC derived growth factor) receptors, inhibiting EGF- and PDGF-stimulated DNA
 CC synthesis in an SH2-dependent manner. Nck-2 is also able to interact with
 CC v-Abl, Ras and Sos proteins to induce transcriptional activation, and is

CC therefore implicated in the development of cancer, particularly leukaemia
 CC and breast cancer. The oligonucleotides of the invention are useful for
 CC diagnosis, prevention and treatment of conditions associated with Nck-2
 CC expression, such as leukaemia and breast cancer

XX Sequence 20 BP; 2 A; 6 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 0.7%; Score 17; DB 4; Length 20;
 Best Local Similarity 100.0%; Pred. No. 2.3e+03;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1694 GAGTACGGCCCAATGG 1710
 |||||
 Db 18 GAGTACGGCCCAATGG 2

RESULT 18
 AEA03789
 ID AEA03789 standard; RNA; 23 BP.
 XX
 AC AEA03789;
 XX
 DT 28-JUL-2005 (first entry)
 XX
 DE Hairless gene siRNA SEQ ID NO 684.
 XX
 KW short interfering RNA; siRNA; Hairless gene; RNA interference; alopecia;
 KW Endocrine-Gen.; dermatological disease; ss; Gene silencing.
 XX
 OS Synthetic.
 XX
 PN WO2005045036-A2.
 XX
 PD 19-MAY-2005.

XX
 PF 18-AUG-2004; 2004WO-US027042.
 XX
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 15-APR-2004; 2004US-00825485.
 PR 16-APR-2004; 2004US-00826966.
 PR 23-APR-2004; 2004US-00830569.
 PR 26-APR-2004; 2004US-00832522.
 PR 30-APR-2004; 2004US-00013456.
 PR 24-MAY-2004; 2004US-00016390.

XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Mcswiggen J;

XX WPI; 2005-356235/36.

XX
 PT New short interfering nucleic acid molecule that directs cleavage of RNA
 PT encoded by the Hairless gene, useful for treating or preventing alopecia
 PT or atrichia.

PS Claim 33; SEQ ID NO 684; 212pp; English.

XX The invention relates to a chemically synthesized double stranded short
 CC interfering nucleic acid (siRNA) molecule that directs cleavage of RNA
 CC encoded by the Hairless gene via RNA interference (RNAi). The siRNA
 CC molecule is useful for treating or preventing alopecia or atrichia. The
 CC present sequence represents a Hairless gene siRNA.

XX Sequence 23 BP; 1 A; 10 C; 2 G; 0 T; 10 U; 0 Other;

Query Match 0.7%; Score 17; DB 14; Length 23;
 Best Local Similarity 58.8%; Pred. No. 2.3e+03;
 Matches 10; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

```
QY 1653 TGCTTCTCTACCTCTTC 1669
DB 1 UGCCUUCUACCUUCUUC 17

RESULT 19
ABA00742
ID ABA00742 standard; DNA; 24 BP.
XX
AC ABA00742;
XX
DT 18-MAR-2003 (first entry)
DE IP-10 sense primer.
XX
KW Primer; PCR; RT-PCR; dendritic cell; dendrite; interferon; IFN;
KW granulocyte/macrophage-colony stimulating factor; GM-CSF; cytokine;
KW interleukin-4; IL-4; mononuclear cell; lymphoma; Epstein-Barr virus;
KW peripheral blood mononuclear cell; PBMC; vaccine; viral infection; HIV;
KW HBV; HCV; ss.
XX
OS Homo sapiens.
XX
PN WO200288328-A2.
XX
PD 07-NOV-2002.
XX
PF 29-APR-2002; 2002WO-EP004709.
XX
PR 27-APR-2001; 2001US-00845042.
XX
PA (SUPE-) INST SUPERIORE DI SANITA.
XX
PI Belardelli F, Santini SM, Parlato S, Di Fucchio T, Logozzi M;
PI Lapenta C, Ferrantini M, Santodonato L, D'agostino G;
XX
WPI; 2003-120470/11.
XX
PT Preparation of dendritic cells, useful in a vaccine or a pharmaceutical
PT composition for the prevention and/or treatment of infectious or
PT neoplastic disease, comprises culturing mononuclear cells in a medium
PT with type I interferon.
XX
PS Example 4; Page 41; 91pp; English.
XX
CC The sequences given in ABA00738-45 are primers which were used in RT-PCR
CC to determine whether dendritic cells treated with interferon (IFN)/
CC granulocyte/macrophage-colony stimulating factor (GM-CSF) exhibited any
CC specific pattern of cytokine expression as compared to cells cultured in
CC the presence of interleukin-4 (IL-4)/GM-CSF. The dendritic cells used
CC were the cells of the invention which were prepared by culturing
CC mononuclear cells in a culture medium containing type I IFN, where the
CC adherent PMCs and highly purified CD14+ monocytes isolated from PBMCs.
CC The dendritic cells are useful for the preparation of a vaccine or a
CC pharmaceutical composition for the prevention or the treatment of a
CC pathology associated with the presence of an antigen in the human body.
CC The pathology is an infectious or neoplastic disease. The infectious
CC disease is a viral infection, preferably HIV, HBV or HCV infection. The
CC neoplastic disease is lymphoma, and virally induced, preferably by an
CC Epstein-Barr virus
XX
SQ Sequence 24 BP; 3 A; 5 C; 4 G; 12 T; 0 U; 0 Other;
Query Match 0.7%; Score 17; DB 8; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 694 CTGCCTTATCTTTCTGA 710
DB 8 CTGCCTTATCTTTCTGA 24

Search completed: January 13, 2006, 08:27:52
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RESULT 20
ACI94502/C
ID ACI94502 standard; DNA; 25 BP.
XX
AC ACI94502;
XX
DT 14-OCT-2003 (first entry)
DE Human microarray DNA oligonucleotide SEQ ID NO 94493.
XX
EST; ss; probe; expressed sequence tag; microarray; gene expression;
KW genetic variation; biallelic marker; polymorphism; human;
KW cross-species comparison.
XX
OS Homo sapiens.
XX
PN US2003104410-A1.
XX
PD 05-JUN-2003.
XX
PF 15-MAR-2002; 2002US-00098263.
XX
PR 16-MAR-2001; 2001US-0276759P.
XX
PA (AFFY-) AFFYMETRIX INC.
XX
PI Mittmann MP;
XX
WPI; 2003-567953/53.
XX
PT New array of nucleic acid probes, useful for in situ hybridization, in
PT Southern, Northern or dot-blot hybridization to identify or detect the
PT sequence or specific mutations of any gene.
XX
PS Claim 1; SEQ ID NO 94493; 9pp; English.
XX
CC The invention discloses a microarray comprising a plurality of nucleic
CC acid probes including one of 2,018,500 fully defined sequences, or its
CC perfect match, perfect mismatch, antisense match or antisense mismatch.
CC Also disclosed is a method of gene expression analysis. The array is used
CC in monitoring gene expression levels by hybridisation to a DNA library.
CC in analysis of genetic variation or in hybridisation of tag-labelled
CC compounds. The nucleic acid probes are specifically designed for analysis
CC of at least one target sequence. The method of analysis comprises
CC hybridising at least one or more nucleic acids to at least two or more
CC nucleic acid probes and detecting the hybridisation. The nucleic acid
CC probes are attached to a solid support. The analysis comprises monitoring
CC gene expression levels, identifying biallelic markers or polymorphisms,
CC or family members of a gene and a cross-species comparison. Each of the
CC nucleic acids further comprises a tag sequence. The array of nucleic acid
CC probes is useful in in situ hybridisation, in Southern, Northern or dot-
CC blot hybridisation to identify or detect the sequence or specific
CC mutations of any gene, in mapping the 5' termini of mRNA molecules by
CC primer extensions or in screening cDNA or genomic libraries or subclones
CC for additional subclones containing segments of DNA that have been
CC isolated and previously sequenced. The sequence presented is one of the
CC nucleic acid probes incorporated in the microarray. Note: The sequence
CC data for this patent can also be obtained in electronic format directly
CC from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 25 BP; 5 A; 8 C; 6 G; 6 T; 0 U; 0 Other;
Query Match 0.7%; Score 17; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 801 ACCACAGGTGACAGGT 817
DB 20 ACCACAGGTGACAGGT 4

Job time : 1427 secs

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|-------|----|-----|----|---|-----------------------|--------------------|-------|----|-----|----|---|----------------------|-------------------|
| c 98 | 14 | 0.6 | 25 | 3 | US-09-396-196G-53050 | Sequence 53050, A | 171 | 13 | 0.6 | 15 | 3 | US-09-872-338-4 | Sequence 4, Appli |
| c 99 | 14 | 0.6 | 25 | 3 | US-09-396-196G-57090 | Sequence 57090, A | 172 | 13 | 0.6 | 15 | 3 | US-09-872-339-4 | Sequence 4, Appli |
| c 100 | 14 | 0.6 | 25 | 3 | US-09-396-196G-62713 | Sequence 62713, A | 173 | 13 | 0.6 | 15 | 3 | US-09-872-868-4 | Sequence 4, Appli |
| c 101 | 14 | 0.6 | 25 | 3 | US-09-396-196G-62714 | Sequence 62714, A | c 174 | 13 | 0.6 | 16 | 3 | US-09-371-772B-7005 | Sequence 7005, Ap |
| c 102 | 14 | 0.6 | 25 | 3 | US-09-396-196G-63047 | Sequence 63047, A | 175 | 13 | 0.6 | 16 | 3 | US-09-937-585B-6 | Sequence 6, Appli |
| c 103 | 14 | 0.6 | 25 | 3 | US-09-396-196G-70582 | Sequence 70582, A | 176 | 13 | 0.6 | 17 | 2 | US-07-976-103A-41 | Sequence 41, Appl |
| c 104 | 14 | 0.6 | 25 | 3 | US-09-396-196G-70583 | Sequence 70583, A | c 177 | 13 | 0.6 | 17 | 2 | US-07-976-103A-42 | Sequence 42, Appl |
| c 105 | 14 | 0.6 | 25 | 3 | US-09-396-196G-82224 | Sequence 82224, A | 178 | 13 | 0.6 | 17 | 2 | US-08-473-481-41 | Sequence 41, Appl |
| c 106 | 14 | 0.6 | 25 | 3 | US-09-396-196G-82225 | Sequence 82225, A | c 179 | 13 | 0.6 | 17 | 2 | US-08-473-481-42 | Sequence 42, Appl |
| c 107 | 14 | 0.6 | 25 | 3 | US-09-396-196G-82226 | Sequence 82226, A | c 180 | 13 | 0.6 | 17 | 2 | US-08-450-905B-136 | Sequence 136, App |
| c 108 | 14 | 0.6 | 25 | 3 | US-09-396-196G-86957 | Sequence 86957, A | c 181 | 13 | 0.6 | 17 | 3 | US-07-982-759F-136 | Sequence 136, App |
| c 109 | 14 | 0.6 | 25 | 3 | US-09-396-196G-89845 | Sequence 89845, A | c 182 | 13 | 0.6 | 17 | 3 | US-08-584-040-3908 | Sequence 3908, Ap |
| c 110 | 14 | 0.6 | 25 | 3 | US-09-396-196G-94310 | Sequence 94310, A | c 183 | 13 | 0.6 | 17 | 3 | US-08-584-040-3909 | Sequence 3909, Ap |
| c 111 | 14 | 0.6 | 25 | 3 | US-09-396-196G-95842 | Sequence 95842, A | c 184 | 13 | 0.6 | 17 | 3 | US-08-584-040-3910 | Sequence 3910, Ap |
| c 112 | 14 | 0.6 | 25 | 3 | US-09-396-196G-95843 | Sequence 95843, A | c 185 | 13 | 0.6 | 17 | 3 | US-08-584-040-7868 | Sequence 7868, Ap |
| c 113 | 14 | 0.6 | 25 | 3 | US-09-396-196G-96652 | Sequence 96652, A | c 186 | 13 | 0.6 | 17 | 3 | US-08-584-040-7869 | Sequence 7869, Ap |
| c 114 | 14 | 0.6 | 25 | 3 | US-09-396-196G-97805 | Sequence 97805, A | 187 | 13 | 0.6 | 17 | 3 | US-08-599-738A-41 | Sequence 41, Appl |
| c 115 | 14 | 0.6 | 25 | 3 | US-09-396-196G-101487 | Sequence 101487, A | c 188 | 13 | 0.6 | 17 | 3 | US-08-599-738A-42 | Sequence 42, Appl |
| c 116 | 14 | 0.6 | 25 | 3 | US-09-396-196G-102938 | Sequence 102938, A | 189 | 13 | 0.6 | 17 | 3 | US-09-474-432B-625 | Sequence 625, App |
| c 117 | 14 | 0.6 | 25 | 3 | US-09-396-196G-102938 | Sequence 102938, A | c 190 | 13 | 0.6 | 17 | 3 | US-09-474-432B-688 | Sequence 688, App |
| c 118 | 14 | 0.6 | 25 | 3 | US-09-396-196G-110182 | Sequence 110182, A | c 191 | 13 | 0.6 | 17 | 3 | US-09-371-772B-1675 | Sequence 1675, Ap |
| c 119 | 14 | 0.6 | 25 | 3 | US-09-396-196G-113835 | Sequence 113835, A | c 192 | 13 | 0.6 | 17 | 3 | US-09-371-772B-1676 | Sequence 1676, Ap |
| c 120 | 14 | 0.6 | 25 | 3 | US-09-396-196G-119197 | Sequence 119197, A | c 193 | 13 | 0.6 | 17 | 3 | US-09-371-772B-1677 | Sequence 1677, Ap |
| c 121 | 14 | 0.6 | 25 | 3 | US-09-396-196G-119198 | Sequence 119198, A | c 194 | 13 | 0.6 | 17 | 3 | US-09-371-772B-3651 | Sequence 3651, Ap |
| c 122 | 14 | 0.6 | 25 | 3 | US-09-396-196G-122093 | Sequence 122093, A | 195 | 13 | 0.6 | 17 | 3 | US-09-371-772B-3652 | Sequence 3652, Ap |
| c 123 | 14 | 0.6 | 26 | 2 | US-08-859-998-1263 | Sequence 1263, Ap | 196 | 13 | 0.6 | 17 | 3 | US-09-476-387-624 | Sequence 624, App |
| c 124 | 14 | 0.6 | 26 | 3 | US-09-225-928-1263 | Sequence 1263, Ap | c 197 | 13 | 0.6 | 17 | 3 | US-09-476-387-687 | Sequence 687, App |
| c 125 | 14 | 0.6 | 26 | 3 | US-09-225-201B-1263 | Sequence 1263, Ap | c 198 | 13 | 0.6 | 17 | 3 | US-09-866-108A-2000 | Sequence 2000, Ap |
| c 126 | 14 | 0.6 | 27 | 2 | US-08-433-010-31 | Sequence 31, Appl | c 199 | 13 | 0.6 | 17 | 3 | US-09-866-108A-2001 | Sequence 2001, Ap |
| c 127 | 14 | 0.6 | 27 | 2 | US-08-482-882-107 | Sequence 107, App | c 200 | 13 | 0.6 | 17 | 3 | US-09-866-108A-2002 | Sequence 2002, Ap |
| c 128 | 14 | 0.6 | 27 | 2 | US-08-483-389-107 | Sequence 107, App | c 201 | 13 | 0.6 | 17 | 3 | US-09-866-108A-2003 | Sequence 2003, Ap |
| c 129 | 14 | 0.6 | 27 | 2 | US-08-487-113D-107 | Sequence 107, App | c 202 | 13 | 0.6 | 17 | 3 | US-09-866-108A-2004 | Sequence 2004, Ap |
| c 130 | 14 | 0.6 | 27 | 2 | US-08-473-503-107 | Sequence 107, App | c 203 | 13 | 0.6 | 17 | 3 | US-09-866-108A-6339 | Sequence 6339, Ap |
| c 131 | 14 | 0.6 | 27 | 2 | US-08-483-932-107 | Sequence 107, App | c 204 | 13 | 0.6 | 17 | 3 | US-09-866-108A-6340 | Sequence 6340, Ap |
| c 132 | 14 | 0.6 | 27 | 2 | US-08-720-420A-107 | Sequence 107, App | c 205 | 13 | 0.6 | 17 | 3 | US-09-866-108A-6341 | Sequence 6341, Ap |
| c 133 | 14 | 0.6 | 27 | 3 | US-08-714-017-107 | Sequence 107, App | c 206 | 13 | 0.6 | 17 | 3 | US-09-866-108A-6342 | Sequence 6342, Ap |
| c 134 | 14 | 0.6 | 27 | 3 | US-08-863-790-42 | Sequence 42, Appl | c 207 | 13 | 0.6 | 17 | 3 | US-09-866-108A-6343 | Sequence 6343, Ap |
| c 135 | 14 | 0.6 | 27 | 3 | US-08-475-680-107 | Sequence 107, App | c 208 | 13 | 0.6 | 17 | 3 | US-09-866-108A-10506 | Sequence 10506, A |
| c 136 | 14 | 0.6 | 27 | 3 | US-08-296-749-42 | Sequence 42, Appl | c 209 | 13 | 0.6 | 17 | 3 | US-09-866-108A-10507 | Sequence 10507, A |
| c 137 | 14 | 0.6 | 27 | 3 | US-08-913-014A-19 | Sequence 19, Appl | c 210 | 13 | 0.6 | 17 | 3 | US-09-866-108A-10508 | Sequence 10508, A |
| c 138 | 14 | 0.6 | 27 | 3 | US-08-584-040-3588 | Sequence 3588, Ap | c 211 | 13 | 0.6 | 17 | 3 | US-09-866-108A-10509 | Sequence 10509, A |
| c 139 | 14 | 0.6 | 27 | 3 | US-09-653-285-19 | Sequence 19, Appl | c 212 | 13 | 0.6 | 17 | 3 | US-09-866-108A-10510 | Sequence 10510, A |
| c 140 | 14 | 0.6 | 29 | 2 | US-08-816-693A-41 | Sequence 41, Appl | 213 | 13 | 0.6 | 17 | 3 | US-10-294-203-41 | Sequence 41, Appl |
| c 141 | 14 | 0.6 | 29 | 3 | US-08-885-291-41 | Sequence 41, Appl | c 214 | 13 | 0.6 | 17 | 3 | US-10-294-203-42 | Sequence 42, Appl |
| c 142 | 14 | 0.6 | 29 | 3 | US-09-496-672-41 | Sequence 41, Appl | c 215 | 13 | 0.6 | 17 | 3 | US-09-685-664B-1675 | Sequence 1675, Ap |
| c 143 | 14 | 0.6 | 29 | 3 | US-09-304-232-528 | Sequence 528, App | c 216 | 13 | 0.6 | 17 | 3 | US-09-685-664B-1676 | Sequence 1676, Ap |
| c 144 | 14 | 0.6 | 29 | 3 | US-09-786-035A-5 | Sequence 5, Appli | c 217 | 13 | 0.6 | 17 | 3 | US-09-685-664B-1677 | Sequence 1677, Ap |
| c 145 | 14 | 0.6 | 29 | 3 | US-09-470-276-88 | Sequence 88, Appl | c 218 | 13 | 0.6 | 17 | 3 | US-09-685-664B-3651 | Sequence 3651, Ap |
| c 146 | 14 | 0.6 | 30 | 2 | US-08-418-085-15 | Sequence 15, Appl | 219 | 13 | 0.6 | 17 | 3 | US-09-685-664B-3652 | Sequence 3652, Ap |
| c 147 | 14 | 0.6 | 30 | 3 | US-08-840-062-15 | Sequence 15, Appl | 220 | 13 | 0.6 | 17 | 3 | US-10-294-203-41 | Sequence 41, Appl |
| c 148 | 14 | 0.6 | 30 | 3 | US-09-099-011A-15 | Sequence 15, Appl | c 221 | 13 | 0.6 | 17 | 3 | US-10-294-203-42 | Sequence 42, Appl |
| c 149 | 14 | 0.6 | 30 | 3 | US-08-613-743-8 | Sequence 8, Appli | c 222 | 13 | 0.6 | 17 | 3 | US-10-024-818-41 | Sequence 41, Appl |
| c 150 | 14 | 0.6 | 30 | 3 | US-09-098-877B-15 | Sequence 15, Appl | c 223 | 13 | 0.6 | 17 | 3 | US-10-024-818-42 | Sequence 42, Appl |
| c 151 | 14 | 0.6 | 30 | 3 | US-09-725-735A-9 | Sequence 9, Appli | 224 | 13 | 0.6 | 18 | 2 | US-07-874-334-14 | Sequence 14, Appl |
| c 152 | 14 | 0.6 | 30 | 3 | US-09-524-101D-12 | Sequence 12, Appl | c 225 | 13 | 0.6 | 18 | 2 | US-08-066-325-51 | Sequence 51, Appl |
| c 153 | 14 | 0.6 | 30 | 3 | US-09-730-716-12 | Sequence 12, Appl | 226 | 13 | 0.6 | 18 | 2 | US-08-311-486C-1089 | Sequence 1089, Ap |
| c 154 | 14 | 0.6 | 30 | 3 | US-10-395-433-3 | Sequence 3, Appli | c 227 | 13 | 0.6 | 18 | 2 | US-08-585-684B-2687 | Sequence 2687, Ap |
| c 155 | 13 | 0.6 | 13 | 2 | US-08-520-637-2 | Sequence 2, Appli | c 228 | 13 | 0.6 | 18 | 2 | US-08-532-795-34 | Sequence 34, Appl |
| c 156 | 13 | 0.6 | 13 | 2 | US-08-477-493-4 | Sequence 4, Appli | 229 | 13 | 0.6 | 18 | 3 | US-08-834-324-6 | Sequence 6, Appli |
| c 157 | 13 | 0.6 | 13 | 3 | US-08-465-375-5 | Sequence 5, Appli | 230 | 13 | 0.6 | 18 | 3 | US-08-475-742-9 | Sequence 9, Appli |
| c 158 | 13 | 0.6 | 13 | 3 | US-09-255-392-4 | Sequence 4, Appli | c 231 | 13 | 0.6 | 18 | 3 | US-09-213-719-39 | Sequence 39, Appl |
| c 159 | 13 | 0.6 | 13 | 3 | US-08-464-514-25 | Sequence 25, Appl | 232 | 13 | 0.6 | 18 | 3 | US-09-038-073-2687 | Sequence 2687, Ap |
| c 160 | 13 | 0.6 | 13 | 3 | US-08-486-403-25 | Sequence 25, Appl | c 233 | 13 | 0.6 | 18 | 3 | US-09-387-341-195 | Sequence 195, App |
| c 161 | 13 | 0.6 | 13 | 3 | US-09-788-070-5 | Sequence 5, Appli | c 234 | 13 | 0.6 | 18 | 3 | US-08-261-293-9 | Sequence 9, Appli |
| c 162 | 13 | 0.6 | 13 | 3 | US-10-142-373-5 | Sequence 5, Appli | c 235 | 13 | 0.6 | 18 | 3 | US-09-920-760-63 | Sequence 63, Appl |
| c 163 | 13 | 0.6 | 13 | 3 | US-09-155-252A-5 | Sequence 5, Appli | 236 | 13 | 0.6 | 18 | 3 | US-09-422-978-4112 | Sequence 4112, Ap |
| c 164 | 13 | 0.6 | 15 | 2 | US-07-905-930E-7 | Sequence 7, Appli | 237 | 13 | 0.6 | 18 | 3 | US-09-422-978-5841 | Sequence 5841, Ap |
| c 165 | 13 | 0.6 | 15 | 2 | US-08-292-620A-68 | Sequence 68, Appl | c 238 | 13 | 0.6 | 18 | 3 | US-08-780-562-24 | Sequence 24, Appl |
| c 166 | 13 | 0.6 | 15 | 2 | US-08-585-684B-2080 | Sequence 2080, Ap | c 239 | 13 | 0.6 | 18 | 3 | US-08-780-562-25 | Sequence 25, Appl |
| c 167 | 13 | 0.6 | 15 | 3 | US-09-071-845-68 | Sequence 68, Appl | c 240 | 13 | 0.6 | 18 | 3 | US-09-533-494A-29 | Sequence 29, Appl |
| c 168 | 13 | 0.6 | 15 | 3 | US-09-038-073-2080 | Sequence 2080, Ap | c 241 | 13 | 0.6 | 19 | 3 | US-09-086-663A-29 | Sequence 29, Appl |
| c 169 | 13 | 0.6 | 15 | 3 | US-09-474-432B-108 | Sequence 108, App | c 242 | 13 | 0.6 | 19 | 3 | US-09-422-978-8227 | Sequence 8227, Ap |
| c 170 | 13 | 0.6 | 15 | 3 | US-09-476-387-108 | Sequence 108, App | 243 | 13 | 0.6 | 19 | 3 | US-10-121-911A-4 | Sequence 4, Appli |

| | | | | | | | | | | | | | |
|-------|----|-----|----|---|---------------------|-------------------|-------|----|-----|----|---|----------------------|--------------------|
| c 244 | 13 | 0.6 | 19 | 3 | US-09-935-038A-21 | Sequence 21, Appl | c 317 | 13 | 0.6 | 24 | 2 | US-08-320-306-23 | Sequence 23, Appl |
| 245 | 13 | 0.6 | 19 | 3 | US-09-696-791-1957 | Sequence 1957, Ap | c 318 | 13 | 0.6 | 24 | 2 | US-08-488-209B-23 | Sequence 23, Appl |
| 246 | 13 | 0.6 | 20 | 3 | US-07-922-723A-23 | Sequence 23, Appl | c 319 | 13 | 0.6 | 24 | 2 | US-08-408-011-23 | Sequence 23, Appl |
| 247 | 13 | 0.6 | 20 | 2 | US-07-799-828C-23 | Sequence 23, Appl | c 320 | 13 | 0.6 | 24 | 3 | US-08-559-205-23 | Sequence 23, Appl |
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| C 450 | 13 | 0.6 | 25 | 3 | US-09-396-196G-29528 | Sequence 29528, A | C 523 | 13 | 0.6 | 25 | 3 | US-09-396-196G-79835 | Sequence 79835, A |
| C 451 | 13 | 0.6 | 25 | 3 | US-09-396-196G-29529 | Sequence 29529, A | C 524 | 13 | 0.6 | 25 | 3 | US-09-396-196G-79939 | Sequence 79939, A |
| C 452 | 13 | 0.6 | 25 | 3 | US-09-396-196G-29807 | Sequence 29807, A | C 525 | 13 | 0.6 | 25 | 3 | US-09-396-196G-79956 | Sequence 79956, A |
| C 453 | 13 | 0.6 | 25 | 3 | US-09-396-196G-30486 | Sequence 30486, A | C 526 | 13 | 0.6 | 25 | 3 | US-09-396-196G-81784 | Sequence 81784, A |
| C 454 | 13 | 0.6 | 25 | 3 | US-09-396-196G-31697 | Sequence 31697, A | C 527 | 13 | 0.6 | 25 | 3 | US-09-396-196G-81973 | Sequence 81973, A |
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| C 456 | 13 | 0.6 | 25 | 3 | US-09-396-196G-33800 | Sequence 33800, A | C 529 | 13 | 0.6 | 25 | 3 | US-09-396-196G-81975 | Sequence 81975, A |
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| C 458 | 13 | 0.6 | 25 | 3 | US-09-396-196G-35623 | Sequence 35623, A | C 531 | 13 | 0.6 | 25 | 3 | US-09-396-196G-81977 | Sequence 81977, A |
| C 459 | 13 | 0.6 | 25 | 3 | US-09-396-196G-35956 | Sequence 35956, A | C 532 | 13 | 0.6 | 25 | 3 | US-09-396-196G-82758 | Sequence 82758, A |
| C 460 | 13 | 0.6 | 25 | 3 | US-09-396-196G-36779 | Sequence 36779, A | C 533 | 13 | 0.6 | 25 | 3 | US-09-396-196G-83487 | Sequence 83487, A |
| C 461 | 13 | 0.6 | 25 | 3 | US-09-396-196G-37125 | Sequence 37125, A | C 534 | 13 | 0.6 | 25 | 3 | US-09-396-196G-83488 | Sequence 83488, A |
| C 462 | 13 | 0.6 | 25 | 3 | US-09-396-196G-37141 | Sequence 37141, A | C 535 | 13 | 0.6 | 25 | 3 | US-09-396-196G-83489 | Sequence 83489, A |

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| 536 | 13 | 0.6 | 25 | 3 | US-09-396-196G-83490 | Sequence 83490, A | 609 | 13 | 0.6 | 27 | 3 | US-08-795-445A-37 | Sequence 37, Appl |
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| c 544 | 13 | 0.6 | 25 | 3 | US-09-396-196G-90683 | Sequence 90683, A | c 617 | 13 | 0.6 | 27 | 3 | US-09-835-909A-3 | Sequence 3, Appl |
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| c 551 | 13 | 0.6 | 25 | 3 | US-09-396-196G-93938 | Sequence 93938, A | c 624 | 13 | 0.6 | 28 | 3 | US-09-023-082A-113 | Sequence 113, Appl |
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| c 568 | 13 | 0.6 | 25 | 3 | US-09-396-196G-100298 | Sequence 100298, A | c 641 | 13 | 0.6 | 29 | 2 | US-09-014-969-28 | Sequence 28, Appl |
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| c 580 | 13 | 0.6 | 25 | 3 | US-09-396-196G-112910 | Sequence 112910, A | 653 | 13 | 0.6 | 30 | 2 | US-08-261-206A-38 | Sequence 38, Appl |
| c 581 | 13 | 0.6 | 25 | 3 | US-09-396-196G-115644 | Sequence 115644, A | 654 | 13 | 0.6 | 30 | 2 | US-08-261-206A-42 | Sequence 42, Appl |
| c 582 | 13 | 0.6 | 25 | 3 | US-09-396-196G-117408 | Sequence 117408, A | 655 | 13 | 0.6 | 30 | 2 | US-08-384-708A-148 | Sequence 148, Appl |
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| c 587 | 13 | 0.6 | 25 | 3 | US-09-396-196G-121408 | Sequence 121408, A | c 660 | 13 | 0.6 | 30 | 3 | US-08-840-062-15 | Sequence 15, Appl |
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| c 596 | 13 | 0.6 | 26 | 2 | US-08-912-976-10 | Sequence 10, Appl | 669 | 12 | 0.5 | 12 | 2 | US-08-093-383-9 | Sequence 9, Appl |
| c 597 | 13 | 0.6 | 26 | 2 | US-08-912-976-12 | Sequence 12, Appl | 670 | 12 | 0.5 | 13 | 3 | US-09-474-432B-107 | Sequence 107, Appl |
| c 598 | 13 | 0.6 | 26 | 3 | US-09-527-236A-11 | Sequence 11, Appl | 671 | 12 | 0.5 | 13 | 3 | US-09-476-387-107 | Sequence 107, Appl |
| c 599 | 13 | 0.6 | 26 | 3 | US-09-756-854-11 | Sequence 11, Appl | 672 | 12 | 0.5 | 14 | 9 | 5223407-5 | Patent No. 5223407 |
| 600 | 13 | 0.6 | 26 | 3 | US-09-599-833A-146 | Sequence 146, Appl | 673 | 12 | 0.5 | 14 | 9 | 5223407-6 | Patent No. 5223407 |
| 601 | 13 | 0.6 | 26 | 3 | US-10-041-574-11 | Sequence 11, Appl | 674 | 12 | 0.5 | 15 | 2 | US-08-311-760A-71 | Sequence 71, Appl |
| 602 | 13 | 0.6 | 26 | 3 | US-09-095-094-11 | Sequence 11, Appl | c 675 | 12 | 0.5 | 15 | 2 | US-08-311-760A-231 | Sequence 231, Appl |
| 603 | 13 | 0.6 | 26 | 3 | US-10-020-445A-146 | Sequence 146, Appl | c 676 | 12 | 0.5 | 15 | 2 | US-08-363-240A-81 | Sequence 81, Appl |
| 604 | 13 | 0.6 | 27 | 2 | US-08-560-558E-25 | Sequence 25, Appl | c 677 | 12 | 0.5 | 15 | 2 | US-08-363-240A-609 | Sequence 609, Appl |
| c 605 | 13 | 0.6 | 27 | 2 | US-08-560-558E-26 | Sequence 26, Appl | 678 | 12 | 0.5 | 15 | 2 | US-08-623-891-86 | Sequence 86, Appl |
| c 606 | 13 | 0.6 | 27 | 3 | US-08-574-023-37 | Sequence 37, Appl | 679 | 12 | 0.5 | 15 | 2 | US-08-311-486C-254 | Sequence 254, Appl |
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| 608 | 13 | 0.6 | 27 | 3 | US-09-311-042-5 | Sequence 5, Appl | 681 | 12 | 0.5 | 15 | 2 | | |

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|-------|----|-----|----|---|----------------------|--------------------|-------|----|-----|----|---|----------------------|--------------------|
| 682 | 12 | 0.5 | 15 | 2 | US-08-311-486C-674 | Sequence 674, App | 755 | 12 | 0.5 | 17 | 3 | US-09-866-108A-10671 | Sequence 10671, A |
| 683 | 12 | 0.5 | 15 | 2 | US-08-744-829-1 | Sequence 1, Appli | 756 | 12 | 0.5 | 17 | 3 | US-09-866-108A-10672 | Sequence 10672, A |
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| 686 | 12 | 0.5 | 15 | 2 | US-08-585-684B-1223 | Sequence 1223, Ap | 759 | 12 | 0.5 | 17 | 3 | US-09-866-108A-10675 | Sequence 10675, A |
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| c 689 | 12 | 0.5 | 15 | 2 | US-08-550-120-12 | Sequence 12, Appli | 762 | 12 | 0.5 | 17 | 3 | US-09-404-912-641 | Sequence 641, App |
| c 690 | 12 | 0.5 | 15 | 3 | US-08-832-021-58 | Sequence 58, Appli | c 763 | 12 | 0.5 | 17 | 3 | US-09-685-664B-1678 | Sequence 1678, App |
| 691 | 12 | 0.5 | 15 | 3 | US-08-913-833-63 | Sequence 63, Appli | 764 | 12 | 0.5 | 17 | 3 | US-09-685-664B-1747 | Sequence 1747, Ap |
| 692 | 12 | 0.5 | 15 | 3 | US-09-071-845-70 | Sequence 70, Appli | 765 | 12 | 0.5 | 17 | 3 | US-08-844-175B-20 | Sequence 20, Appli |
| 693 | 12 | 0.5 | 15 | 3 | US-09-177-359-21 | Sequence 21, Appli | 766 | 12 | 0.5 | 17 | 3 | US-09-818-875-907 | Sequence 907, App |
| c 694 | 12 | 0.5 | 15 | 3 | US-09-038-073-1212 | Sequence 1212, Ap | c 767 | 12 | 0.5 | 17 | 3 | US-09-818-875-908 | Sequence 908, App |
| c 695 | 12 | 0.5 | 15 | 3 | US-09-038-073-1223 | Sequence 1223, Ap | 768 | 12 | 0.5 | 17 | 3 | US-09-818-875-1391 | Sequence 1391, Ap |
| 696 | 12 | 0.5 | 15 | 3 | US-09-580-794C-63 | Sequence 63, Appli | c 769 | 12 | 0.5 | 17 | 3 | US-09-818-875-1392 | Sequence 1392, Ap |
| 697 | 12 | 0.5 | 15 | 3 | US-09-340-861-86 | Sequence 86, Appli | c 770 | 12 | 0.5 | 17 | 3 | US-09-818-875-4194 | Sequence 4194, Ap |
| 698 | 12 | 0.5 | 15 | 3 | US-09-634-262-86 | Sequence 86, Appli | 771 | 12 | 0.5 | 17 | 3 | US-09-818-875-4195 | Sequence 4195, Ap |
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| 700 | 12 | 0.5 | 15 | 3 | US-09-943-983C-63 | Sequence 63, Appli | c 773 | 12 | 0.5 | 18 | 2 | US-08-474-542A-65 | Sequence 65, Appli |
| 701 | 12 | 0.5 | 15 | 3 | US-09-544-934B-74 | Sequence 74, Appli | c 774 | 12 | 0.5 | 18 | 2 | US-08-343-027A-10 | Sequence 10, Appli |
| 702 | 12 | 0.5 | 15 | 3 | US-10-055-732-10 | Sequence 10, Appli | c 775 | 12 | 0.5 | 18 | 2 | US-08-328-592-4 | Sequence 2, Appli |
| 703 | 12 | 0.5 | 16 | 2 | US-08-127-954-37 | Sequence 37, Appli | 776 | 12 | 0.5 | 18 | 2 | US-08-328-592-4 | Sequence 4, Appli |
| 704 | 12 | 0.5 | 16 | 2 | US-08-644-034A-12 | Sequence 12, Appli | c 777 | 12 | 0.5 | 18 | 2 | US-08-457-648-65 | Sequence 65, Appli |
| c 705 | 12 | 0.5 | 16 | 2 | US-08-644-034A-22 | Sequence 22, Appli | c 778 | 12 | 0.5 | 18 | 2 | US-08-361-479-38 | Sequence 38, Appli |
| 706 | 12 | 0.5 | 16 | 3 | US-08-913-833-64 | Sequence 64, Appli | c 779 | 12 | 0.5 | 18 | 2 | US-08-183-214-7 | Sequence 7, Appli |
| 707 | 12 | 0.5 | 16 | 3 | US-09-580-794C-64 | Sequence 64, Appli | c 780 | 12 | 0.5 | 18 | 2 | US-08-473-576-38 | Sequence 38, Appli |
| c 708 | 12 | 0.5 | 16 | 3 | US-09-044-781A-9 | Sequence 9, Appli | 781 | 12 | 0.5 | 18 | 2 | US-08-311-486C-1156 | Sequence 1156, Ap |
| 709 | 12 | 0.5 | 16 | 3 | US-09-509-565-34 | Sequence 34, Appli | 782 | 12 | 0.5 | 18 | 2 | US-08-744-829-5 | Sequence 5, Appli |
| 710 | 12 | 0.5 | 16 | 3 | US-09-943-983C-64 | Sequence 64, Appli | c 783 | 12 | 0.5 | 18 | 2 | US-08-578-516-2 | Sequence 2, Appli |
| c 711 | 12 | 0.5 | 17 | 2 | US-08-242-664-2 | Sequence 2, Appli | c 784 | 12 | 0.5 | 18 | 2 | US-08-505-377-14 | Sequence 14, Appli |
| 712 | 12 | 0.5 | 17 | 2 | US-08-373-124A-492 | Sequence 492, App | c 785 | 12 | 0.5 | 18 | 2 | US-08-843-718-38 | Sequence 38, Appli |
| c 713 | 12 | 0.5 | 17 | 2 | US-08-373-124A-842 | Sequence 842, App | 786 | 12 | 0.5 | 18 | 2 | US-09-256-496-61 | Sequence 61, Appli |
| c 714 | 12 | 0.5 | 17 | 2 | US-08-373-124A-1543 | Sequence 1543, Ap | 787 | 12 | 0.5 | 18 | 3 | US-09-156-253-24 | Sequence 24, Appli |
| c 715 | 12 | 0.5 | 17 | 2 | US-08-373-124A-2547 | Sequence 2547, Ap | 788 | 12 | 0.5 | 18 | 3 | US-09-205-921-45 | Sequence 45, Appli |
| c 716 | 12 | 0.5 | 17 | 2 | US-08-484-138-2 | Sequence 2, Appli | 789 | 12 | 0.5 | 18 | 3 | US-09-255-911-31 | Sequence 31, Appli |
| c 717 | 12 | 0.5 | 17 | 2 | US-08-758-306-1145 | Sequence 1145, Ap | c 790 | 12 | 0.5 | 18 | 3 | US-08-875-540-5 | Sequence 5, Appli |
| 718 | 12 | 0.5 | 17 | 2 | US-08-435-628-492 | Sequence 492, App | 791 | 12 | 0.5 | 18 | 3 | US-08-875-540-6 | Sequence 6, Appli |
| c 719 | 12 | 0.5 | 17 | 2 | US-08-435-628-842 | Sequence 842, App | c 792 | 12 | 0.5 | 18 | 3 | US-08-798-269-14 | Sequence 14, Appli |
| c 720 | 12 | 0.5 | 17 | 2 | US-08-435-628-1343 | Sequence 1343, Ap | 793 | 12 | 0.5 | 18 | 3 | US-09-156-807-44 | Sequence 44, Appli |
| c 721 | 12 | 0.5 | 17 | 2 | US-08-435-628-1543 | Sequence 1543, Ap | 794 | 12 | 0.5 | 18 | 3 | US-09-156-807-45 | Sequence 45, Appli |
| c 722 | 12 | 0.5 | 17 | 2 | US-07-735-068-4 | Sequence 4, Appli | c 795 | 12 | 0.5 | 18 | 3 | US-09-071-433-40 | Sequence 40, Appli |
| 723 | 12 | 0.5 | 17 | 3 | US-08-894-731-5 | Sequence 5, Appli | c 796 | 12 | 0.5 | 18 | 3 | US-09-358-972-217 | Sequence 217, App |
| 724 | 12 | 0.5 | 17 | 3 | US-08-998-099-91 | Sequence 91, Appli | c 797 | 12 | 0.5 | 18 | 3 | US-09-358-972-220 | Sequence 220, App |
| 725 | 12 | 0.5 | 17 | 3 | US-08-998-099-92 | Sequence 92, Appli | c 798 | 12 | 0.5 | 18 | 3 | US-09-406-064-24 | Sequence 24, Appli |
| c 726 | 12 | 0.5 | 17 | 3 | US-08-584-040-3911 | Sequence 3911, Ap | c 799 | 12 | 0.5 | 18 | 3 | US-09-406-064-27 | Sequence 27, Appli |
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| c 729 | 12 | 0.5 | 17 | 3 | US-09-302-681-101 | Sequence 101, App | c 802 | 12 | 0.5 | 18 | 3 | US-08-811-463-25 | Sequence 25, Appli |
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| 731 | 12 | 0.5 | 17 | 3 | US-09-474-432B-376 | Sequence 376, App | c 804 | 12 | 0.5 | 18 | 3 | US-09-430-615-56 | Sequence 56, Appli |
| 732 | 12 | 0.5 | 17 | 3 | US-09-474-432B-386 | Sequence 386, App | c 805 | 12 | 0.5 | 18 | 3 | US-08-891-292A-78 | Sequence 78, Appli |
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| c 738 | 12 | 0.5 | 17 | 3 | US-09-371-772B-6295 | Sequence 6295, Ap | c 811 | 12 | 0.5 | 18 | 3 | US-08-294-312B-76 | Sequence 76, Appli |
| 739 | 12 | 0.5 | 17 | 3 | US-09-476-387-369 | Sequence 369, App | c 812 | 12 | 0.5 | 18 | 3 | US-09-512-342-9 | Sequence 9, Appli |
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| 741 | 12 | 0.5 | 17 | 3 | US-09-476-387-835 | Sequence 835, App | c 814 | 12 | 0.5 | 18 | 3 | US-09-383-316-77 | Sequence 77, Appli |
| c 742 | 12 | 0.5 | 17 | 3 | US-09-866-108A-1546 | Sequence 1546, Ap | 815 | 12 | 0.5 | 18 | 3 | US-09-387-341-146 | Sequence 146, App |
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| c 745 | 12 | 0.5 | 17 | 3 | US-09-866-108A-1549 | Sequence 1549, Ap | c 818 | 12 | 0.5 | 18 | 3 | US-09-473-634-5 | Sequence 5, Appli |
| c 746 | 12 | 0.5 | 17 | 3 | US-09-866-108A-1550 | Sequence 1550, Ap | 819 | 12 | 0.5 | 18 | 3 | US-09-473-634-6 | Sequence 6, Appli |
| c 747 | 12 | 0.5 | 17 | 3 | US-09-866-108A-1551 | Sequence 1551, Ap | 820 | 12 | 0.5 | 18 | 3 | US-09-422-978-4200 | Sequence 4200, Ap |
| c 748 | 12 | 0.5 | 17 | 3 | US-09-866-108A-1999 | Sequence 1999, Ap | 821 | 12 | 0.5 | 18 | 3 | US-09-422-978-4765 | Sequence 4765, Ap |
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| c 750 | 12 | 0.5 | 17 | 3 | US-09-866-108A-6338 | Sequence 6338, Ap | 823 | 12 | 0.5 | 18 | 3 | US-09-422-978-6652 | Sequence 6652, Ap |
| c 751 | 12 | 0.5 | 17 | 3 | US-09-866-108A-6344 | Sequence 6344, A | c 824 | 12 | 0.5 | 18 | 3 | US-09-422-978-7778 | Sequence 7778, Ap |
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| 754 | 12 | 0.5 | 17 | 3 | US-09-866-108A-10670 | Sequence 10670, A | 827 | 12 | 0.5 | 18 | 3 | US-09-422-978-8862 | Sequence 8862, Ap |

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| C 834 | 12 | 0.5 | 18 | 3 | US-09-788-847-27 | Sequence 27, Appl | C 907 | 12 | 0.5 | 20 | 2 | US-08-068-945A-44 | Sequence 44, Appl |
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| C 844 | 12 | 0.5 | 19 | 2 | US-08-152-313-40 | Sequence 40, Appl | C 917 | 12 | 0.5 | 20 | 2 | US-08-117-952-534 | Sequence 534, App |
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| C 847 | 12 | 0.5 | 19 | 2 | US-08-487-033-6 | Sequence 6, Appl | C 920 | 12 | 0.5 | 20 | 2 | US-09-005-533-67 | Sequence 67, Appl |
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| C 849 | 12 | 0.5 | 19 | 2 | US-08-480-810-6 | Sequence 6, Appl | C 922 | 12 | 0.5 | 20 | 2 | US-08-888-982A-36 | Sequence 36, Appl |
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| C 877 | 12 | 0.5 | 19 | 3 | US-09-542-552-13 | Sequence 13, Appl | C 950 | 12 | 0.5 | 20 | 3 | US-08-983-466-5 | Sequence 5, Appl |
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| C 896 | 12 | 0.5 | 19 | 3 | US-09-766-253-87 | Sequence 87, Appl | C 969 | 12 | 0.5 | 20 | 3 | US-09-462-261-33 | Sequence 33, Appl |
| C 897 | 12 | 0.5 | 19 | 3 | US-09-997-423-5 | Sequence 5, Appl | C 970 | 12 | 0.5 | 20 | 3 | US-09-462-261-36 | Sequence 36, Appl |
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| C 899 | 12 | 0.5 | 19 | 3 | US-10-054-295-87 | Sequence 87, Appl | C 972 | 12 | 0.5 | 20 | 3 | US-09-506-073-122 | Sequence 122, App |
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ALIGNMENTS

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RESULT 1
US-09-444-053-41/c
; Sequence 41, Application US/09444053A
; Patent No. 6165728
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF NCK-2 EXPRESSION
; FILE REFERENCE: RTS-0122
; CURRENT APPLICATION NUMBER: US/09/444,053A
; CURRENT FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-444-053-41
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Query Match          0.7%; Score 17; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.9e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1694  GAGTACGCGCCCAATGG 1710
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Db       18  GAGTACGCGCCCAATGG 2
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RESULT 2
US-09-991-181-440/c
; Sequence 440, Application US/09991181
; Patent No. 6913919
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
```

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; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1CS3
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Query Match 0.7%; Score 16; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 18 TTCTACATGGCTGCTG 3

RESULT 3
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; Patent No. 6930170
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
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; APPLICANT: Gerritsen, Mary E.
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC19
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Query Match 0.7%; Score 16; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 18 TTCTACATGGCTGCTG 3

RESULT 4

US-09-997-333-440/c
; Sequence 440, Application US/09997333
; Patent No. 6953836

GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
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;; APPLICANT: Watanabe, Colin K.

;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 0.7%; Score 16; DB 3; Length 22;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1034 TTCTACATGGCTGCTG 1049

Db 18 TTCTACATGGCTGCTG 3

RESULT 5

US-09-992-598-440/c
; Sequence 440 Application US/09992598
; Patent No. 6956108
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C20
; CURRENT APPLICATION NUMBER: US/09/992,598

[illegible]

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; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
```

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Query Match 0.7%; Score 16; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1034 TTCTACATGGCTGCTG 1049
DB 18 TTCTACATGGCTGCTG 3
```

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RESULT 6
US-08-545-562A-29
; Sequence 29, Application US/08545562A
; Patent No. 5840529
; GENERAL INFORMATION:
; APPLICANT: SEIDAH, Nabil G.
; APPLICANT: DAY, Robert
; APPLICANT: CHRETIEN, Michel
; TITLE OF INVENTION: MAMMALIAN PRO-HORMONE CONVERTASE
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: QUARLES & BRADY
; STREET: 411 East Wisconsin Avenue
; CITY: Milwaukee
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53202-4497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/545.562A
; FILING DATE: 19-OCT-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/510,347
; FILING DATE: 02-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 200702.90025
; REFERENCE/DOCKET NUMBER:
; TELEPHONE: (414) 271-5000
; TELEFAX: (414) 271-3552
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
US-08-545-562A-30
; Sequence 30, Application US/08545562A
; Patent No. 5840529
; GENERAL INFORMATION:
; APPLICANT: SEIDAH, Nabil G.
; APPLICANT: DAY, Robert
; APPLICANT: CHRETIEN, Michel
; TITLE OF INVENTION: MAMMALIAN PRO-HORMONE CONVERTASE
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: QUARLES & BRADY
; STREET: 411 East Wisconsin Avenue
; CITY: Milwaukee
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53202-4497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/545.562A
; FILING DATE: 19-OCT-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/510,347
; FILING DATE: 02-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 200702.90025
; REFERENCE/DOCKET NUMBER:
; TELEPHONE: (414) 271-5000
; TELEFAX: (414) 271-3552
; INFORMATION FOR SEQ ID NO: 29:
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
US-08-545-562A-29
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Query Match 0.7%; Score 16; DB 2; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 646 TGCCGGTGTGGCCTTC 661
DB 6 TGCCGGTGTGGCCTTC 21
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RESULT 7
US-08-545-562A-30
; Sequence 30, Application US/08545562A
; Patent No. 5840529
; GENERAL INFORMATION:
; APPLICANT: SEIDAH, Nabil G.
; APPLICANT: DAY, Robert
; APPLICANT: CHRETIEN, Michel
; TITLE OF INVENTION: MAMMALIAN PRO-HORMONE CONVERTASE
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: QUARLES & BRADY
; STREET: 411 East Wisconsin Avenue
; CITY: Milwaukee
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53202-4497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/545.562A
; FILING DATE: 19-OCT-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/510,347
; FILING DATE: 02-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/517,015
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BAKER, Jean C.
; REGISTRATION NUMBER: 35,433
; REFERENCE/DOCKET NUMBER: 200702.90025
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (414) 271-5000
; TELEFAX: (414) 271-3552
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
US-08-545-562A-30
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Query Match 0.7%; Score 16; DB 2; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 646 TGCCGGTGTGGCCTTC 661
DB 6 TGCCGGTGTGGCCTTC 21
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Db 6 TGCCGGTGTGGCCTTC 21

RESULT 8

US-09-396-196G-27376
; Sequence 27376, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27376
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-396-196G-27376

Query Match 0.7%; Score 16; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1718 CCACGTGAAGGTGCTTA 1733

Db 3 CCACGTGAAGGTGCTTA 18

RESULT 9

US-09-396-196G-125365
; Sequence 125365, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125365
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-396-196G-125365

Query Match 0.7%; Score 16; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 TTCCCAGGAATCAAGC 635

Db 7 TTCCCAGGAATCAAGC 22

RESULT 10

US-09-396-196G-125366
; Sequence 125366, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann

; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125366
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-396-196G-125366

Query Match 0.7%; Score 16; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 TTCCCAGGAATCAAGC 635

Db 1 TTCCCAGGAATCAAGC 16

RESULT 11

US-09-818-875-4222
; Sequence 4222, Application US/09818875
; Patent No. 6936467
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/818,875
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4222
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4222

Query Match 0.6%; Score 15; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 432 CCTCATGCCCTGG 446

Db 3 CCTCATGCCCTGG 17

RESULT 12

US-09-818-875-4223/c
; Sequence 4223, Application US/09818875
; Patent No. 6936467
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamper, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single

```
; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/819,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4223
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4223

Query Match          0.6%; Score 15; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 432 CCTCATGGCCCTGG 446
Db 15 CCTCATGGCCCTGG 1

RESULT 13
US-08-134-557D-6
; Sequence 6, Application US/08134557D
; Patent No. 620802
; GENERAL INFORMATION:
; APPLICANT: Greene, Marianne E.
; APPLICANT: Blumberg, Bruce
; TITLE OF INVENTION: Human Peroxisome Proliferator Activated
; TITLE OF INVENTION: Receptor Gamma: Compositions and Methods
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rockey, Milnamow & Katz, Ltd.
; STREET: 2 Prudential Plaza, Suite 4700 180 N. Stetson
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/134,557D
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Katz, Martin L.
; REGISTRATION NUMBER: 25,011
; REFERENCE/DOCKET NUMBER: ARCH:098
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-616-5400
; TELEFAX: 312-616-5460
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-134-557D-6

Query Match          0.6%; Score 15; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; TITLE OF INVENTION: Stranded Oligonucleotides
; FILE REFERENCE: Napro-4
; CURRENT APPLICATION NUMBER: US/09/819,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 4223
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-4223

Query Match          0.6%; Score 15; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 432 CCTCATGGCCCTGG 446
Db 15 CCTCATGGCCCTGG 1

RESULT 14
US-09-587-549C-6
; Sequence 6, Application US/09587549C
; Patent No. 6815168
; GENERAL INFORMATION:
; APPLICANT: Greene, Marianne E.
; APPLICANT: Blumberg, Bruce E.
; TITLE OF INVENTION: Human Peroxisome Proliferator Activated Receptor Gamma:
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: ARD
; CURRENT APPLICATION NUMBER: US/09/587,549C
; CURRENT FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-587-549C-6

Query Match          0.6%; Score 15; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1415 GTGACCTTTGTCTG 1429
Db 3 GTGACCTTTGTCTG 17

RESULT 15
US-08-671-892A-3
; Sequence 3, Application US/08671892A
; Patent No. 5817463
; GENERAL INFORMATION:
; APPLICANT: C. Mullen
; APPLICANT: J. C. Sustachek
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FOR DETECTING
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.0.1
; SOFTWARE: Microsoft Word 5.1a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,892A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul D. Yaeger
; REGISTRATION NUMBER: 37,477
; REFERENCE/DOCKET NUMBER: 5952 US.O1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/937-2341
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic DNA
US-08-671-892A-3

Query Match          0.6%; Score 15; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1343 TTCACCCCTGACCAAC 1357
Db 1 TTCACCCCTGACCAAC 15

RESULT 16
US-08-671-892A-7/c
; Sequence 7, Application US/08671892A
; Patent No. 5817463
; GENERAL INFORMATION:
; APPLICANT: C. Mullen
; APPLICANT: J. C. Sustachek
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FOR DETECTING
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.0.1
; SOFTWARE: Microsoft Word 5.1a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,892A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul D. Yagser
; REGISTRATION NUMBER: 37,477
; REFERENCE/DOCKET NUMBER: 5952.US.O1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/937-2341
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic DNA
US-08-671-892A-7

Query Match          0.6%; Score 15; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1343 TTCACCCCTGACCAAC 1357
Db 20 TTCACCCCTGACCAAC 6

RESULT 17
US-08-317-401E-10
; Sequence 10, Application US/08317401E
; Patent No. 5922561
; GENERAL INFORMATION:
; APPLICANT: Thompson, Sheryl Ann
; APPLICANT: Yaver, Debbie Sue
; TITLE OF INVENTION: GENES ENCODING SIGNAL RECOGNITION PARTICLE OF
```

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; TITLE OF INVENTION: ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5922561o No. 5922561diask of No. 5922561th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,401E
; FILING DATE: 03-October-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Harrington, James J.
; REGISTRATION NUMBER: 38,711
; REFERENCE/DOCKET NUMBER: 4248.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-317-401E-10

Query Match          0.6%; Score 15; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 502 TGGCTTTGGTGGCAT 516
Db 2 TGGCTTTGGTGGCAT 16

RESULT 18
US-09-198-452A-2063/c
; Sequence 2063, Application US/09198452A
; Patent No. 6559234
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 2063
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-2063

Query Match          0.6%; Score 15; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1303 CTACTGCAAGATCCA 1317
Db 20 CTACTGCAAGATCCA 6

RESULT 19
US-09-723-368-5/c
; Sequence 5, Application US/09723368
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; Patent No. 6641818
; GENERAL INFORMATION:
; APPLICANT: NORTHWESTERN UNIVERSITY
; APPLICANT: SPEAR, Patricia G.
; APPLICANT: WARNER, Morgyn S.
; APPLICANT: GERAGHTY, Robert G.
; APPLICANT: MARTINEZ, Wanda M.
; APPLICANT: MONTGOMERY, Rebecca I.
; APPLICANT: COHEN, Gary H.
; APPLICANT: EISENBERG, Robelyn J.
; APPLICANT: WHITEBECK, Charles J.
; APPLICANT: KRUMMENACHER, Claude
; APPLICANT: UNIVERSITY OF PENNSYLVANIA
; TITLE OF INVENTION: CELLULAR PROTEINS WHICH MEDIATE HERPESVIRUS ENTRY
; FILE REFERENCE: 200290.0050/201
; CURRENT APPLICATION NUMBER: US/09/723,368
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. 60/087,862
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: PCT/US99/12235
; PRIOR FILING DATE: 1999-06-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer PRR2A8
US-09-723-368-5

Query Match 0.6%; Score 15; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 17 CTGGTGTCTGCTT 3

RESULT 20
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; Sequence 46, Application US/08468819
; Patent No. 5871723
; GENERAL INFORMATION:
; APPLICANT: Strieter, Robert M.
; APPLICANT: Polverini, Peter J.
; APPLICANT: Kunkel, Steven L.
; TITLE OF INVENTION: CXC Chemokines as Regulators of
; TITLE OF INVENTION: Angiogenesis
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: US
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,819
; FILING DATE: Concurrently herewith
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: UMIC:003/HYL
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000

; TELEFAX: 512/474-7477
; TELEX: N/A
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA"
US-08-468-819-46

Query Match 0.6%; Score 15; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 6.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 694 CTGCCTTATCTTTCT 708
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Db 7 CTGCCTTATCTTTCT 21

Search completed: January 13, 2006, 11:50:03
Job time : 426 secs

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| c 99 | 16 | 0.7 | 22 | 3 | US-09-997-384-440 | Sequence 440, App | c 172 | 15 | 0.6 | 17 | 7 | US-10-261-185-4223 | Sequence 4223, Ap |
| c 100 | 16 | 0.7 | 22 | 3 | US-09-998-041-440 | Sequence 440, App | c 173 | 15 | 0.6 | 17 | 7 | US-10-681-074-4222 | Sequence 4222, Ap |
| c 101 | 16 | 0.7 | 22 | 3 | US-09-997-585-440 | Sequence 440, App | c 174 | 15 | 0.6 | 17 | 7 | US-10-681-074-4223 | Sequence 4223, Ap |
| c 102 | 16 | 0.7 | 22 | 3 | US-09-997-614-440 | Sequence 440, App | c 175 | 15 | 0.6 | 17 | 9 | US-10-724-270-38 | Sequence 38, Appl |
| c 103 | 16 | 0.7 | 22 | 3 | US-09-989-863-440 | Sequence 440, App | c 176 | 15 | 0.6 | 19 | 9 | US-10-923-270-297 | Sequence 297, App |
| c 104 | 16 | 0.7 | 22 | 3 | US-09-997-523-440 | Sequence 440, App | c 177 | 15 | 0.6 | 19 | 9 | US-10-923-270-608 | Sequence 608, App |
| c 105 | 16 | 0.7 | 22 | 3 | US-09-989-725-440 | Sequence 440, App | c 178 | 15 | 0.6 | 20 | 6 | US-10-289-762-2063 | Sequence 2063, Ap |
| c 106 | 16 | 0.7 | 22 | 3 | US-09-991-150-440 | Sequence 440, App | c 179 | 15 | 0.6 | 20 | 7 | US-10-461-194-76 | Sequence 76, Appl |
| c 107 | 16 | 0.7 | 22 | 3 | US-09-997-641-440 | Sequence 440, App | c 180 | 15 | 0.6 | 20 | 7 | US-10-619-739-1619 | Sequence 1619, Ap |
| c 108 | 16 | 0.7 | 22 | 3 | US-09-989-733-440 | Sequence 440, App | c 181 | 15 | 0.6 | 20 | 8 | US-10-296-450A-90 | Sequence 90, Appl |
| c 109 | 16 | 0.7 | 22 | 3 | US-09-992-643-440 | Sequence 440, App | c 182 | 15 | 0.6 | 21 | 5 | US-10-104-755-46 | Sequence 46, Appl |
| c 110 | 16 | 0.7 | 22 | 6 | US-10-219-538-440 | Sequence 440, App | c 183 | 15 | 0.6 | 21 | 5 | US-10-252-155-414 | Sequence 414, App |
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| c 112 | 16 | 0.7 | 23 | 9 | US-10-919-964-685 | Sequence 685, App | c 185 | 15 | 0.6 | 21 | 7 | US-10-252-155-416 | Sequence 416, App |
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| c 119 | 16 | 0.7 | 25 | 7 | US-10-719-956-469646 | Sequence 469646, A | c 192 | 15 | 0.6 | 23 | 3 | US-09-788-070-6 | Sequence 6, Appl |
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| c 122 | 16 | 0.7 | 25 | 7 | US-10-719-956-676168 | Sequence 676168, A | c 195 | 15 | 0.6 | 25 | 5 | US-10-098-263B-70345 | Sequence 70345, A |
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| c 124 | 16 | 0.7 | 25 | 8 | US-10-775-169-1289 | Sequence 1289, Ap | c 197 | 15 | 0.6 | 25 | 7 | US-10-681-773-1067 | Sequence 1067, Ap |
| c 125 | 16 | 0.7 | 25 | 8 | US-10-719-900-3629 | Sequence 3629, Ap | c 198 | 15 | 0.6 | 25 | 7 | US-10-681-773-1775 | Sequence 1775, Ap |
| c 126 | 16 | 0.7 | 25 | 8 | US-10-719-900-221126 | Sequence 221126, A | c 199 | 15 | 0.6 | 25 | 7 | US-10-681-773-2211 | Sequence 2211, Ap |
| c 127 | 16 | 0.7 | 25 | 8 | US-10-719-900-233378 | Sequence 233378, A | c 200 | 15 | 0.6 | 25 | 7 | US-10-681-773-3079 | Sequence 3079, Ap |
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| c 135 | 16 | 0.7 | 25 | 8 | US-10-719-900-842124 | Sequence 842124, A | c 208 | 15 | 0.6 | 25 | 7 | US-10-681-773-109439 | Sequence 109439, A |
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| c 146 | 16 | 0.7 | 25 | 9 | US-10-843-527-41154 | Sequence 47154, A | c 219 | 15 | 0.6 | 25 | 7 | US-10-719-956-14364 | Sequence 14364, A |
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| 245 | 15 | 0.6 | 25 | 7 | US-10-719-956-548271 | Sequence 548271, | C 318 | 15 | 0.6 | 25 | 9 | US-10-956-157-81184 | Sequence 81184, A |
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| 268 | 15 | 0.6 | 25 | 8 | US-10-719-900-202357 | Sequence 202357, | C 341 | 15 | 0.6 | 25 | 9 | US-10-843-527-57635 | Sequence 57635, A |
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| 270 | 15 | 0.6 | 25 | 8 | US-10-719-900-212735 | Sequence 212735, | C 343 | 15 | 0.6 | 25 | 9 | US-10-843-527-87662 | Sequence 87662, A |
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| 274 | 15 | 0.6 | 25 | 8 | US-10-719-900-444112 | Sequence 444112, | C 353 | 15 | 0.6 | 25 | 9 | US-10-843-527-111672 | Sequence 111672, A |
| 275 | 15 | 0.6 | 25 | 8 | US-10-719-900-445538 | Sequence 445538, | C 354 | 15 | 0.6 | 25 | 9 | US-10-843-527-126505 | Sequence 126505, A |
| 276 | 15 | 0.6 | 25 | 8 | US-10-719-900-456402 | Sequence 456402, | C 355 | 15 | 0.6 | 25 | 9 | US-10-843-527-149534 | Sequence 149534, A |
| 277 | 15 | 0.6 | 25 | 8 | US-10-719-900-456402 | Sequence 456402, | C 355 | 15 | 0.6 | 25 | 9 | US-10-843-527-149536 | Sequence 149536, A |
| 278 | 15 | 0.6 | 25 | 8 | US-10-719-900-518124 | Sequence 518124, | C 356 | 15 | 0.6 | 25 | 9 | US-10-843-527-149538 | Sequence 149538, A |
| 279 | 15 | 0.6 | 25 | 8 | US-10-719-900-52420 | Sequence 52420, | C 357 | 15 | 0.6 | 25 | 9 | US-10-843-527-149540 | Sequence 149540, A |
| 280 | 15 | 0.6 | 25 | 8 | US-10-719-900-546822 | Sequence 546822, | C 358 | 15 | 0.6 | 25 | 9 | US-10-843-527-149542 | Sequence 149542, A |
| 281 | 15 | 0.6 | 25 | 8 | US-10-719-900-591925 | Sequence 591925, | C 359 | 15 | 0.6 | 25 | 9 | US-10-843-527-150023 | Sequence 150023, A |
| 282 | 15 | 0.6 | 25 | 8 | US-10-719-900-621344 | Sequence 621344, | C 360 | 15 | 0.6 | 25 | 9 | US-10-843-527-150025 | Sequence 150025, A |
| 283 | 15 | 0.6 | 25 | 8 | US-10-719-900-625955 | Sequence 625955, | C 361 | 15 | 0.6 | 25 | 9 | US-10-843-527-150029 | Sequence 150029, A |
| 284 | 15 | 0.6 | 25 | 8 | US-10-719-900-635302 | Sequence 635302, | C 362 | 15 | 0.6 | 25 | 9 | US-10-843-527-150031 | Sequence 150031, A |
| 285 | 15 | 0.6 | 25 | 8 | US-10-719-900-641727 | Sequence 641727, | C 363 | 15 | 0.6 | 25 | 9 | US-10-843-527-150031 | Sequence 150031, A |
| 286 | 15 | 0.6 | 25 | 8 | US-10-719-900-645530 | Sequence 645530, | C 364 | 15 | 0.6 | 25 | 9 | US-10-843-527-150031 | Sequence 150031, A |
| 287 | 15 | 0.6 | 25 | 8 | US-10-719-900-663346 | Sequence 663346, | C 365 | 15 | 0.6 | 25 | 9 | US-10-843-527-150097 | Sequence 150097, A |
| 288 | 15 | 0.6 | 25 | 8 | US-10-719-900-698107 | Sequence 698107, | C 366 | 15 | 0.6 | 25 | 9 | US-10-843-527-179078 | Sequence 179078, A |
| 289 | 15 | 0.6 | 25 | 8 | US-10-719-900-722495 | Sequence 722495, | C 367 | 15 | 0.6 | 25 | 9 | US-10-843-527-197702 | Sequence 197702, A |
| 290 | 15 | 0.6 | 25 | 8 | US-10-719-900-733847 | Sequence 733847, | C 368 | 15 | 0.6 | 25 | 9 | US-10-843-527-205164 | Sequence 205164, A |
| 291 | 15 | 0.6 | 25 | 8 | US-10-719-900-760201 | Sequence 760201, | C 369 | 15 | 0.6 | 25 | 10 | US-11-036-317-6673 | Sequence 6673, Ap |
| 292 | 15 | 0.6 | 25 | 8 | US-10-719-900-798717 | Sequence 798717, | C 370 | 15 | 0.6 | 25 | 10 | US-11-036-317-7207 | Sequence 7207, Ap |
| 293 | 15 | 0.6 | 25 | 8 | US-10-719-900-810476 | Sequence 810476, | C 371 | 15 | 0.6 | 25 | 10 | US-11-036-317-9189 | Sequence 9189, Ap |
| 294 | 15 | 0.6 | 25 | 8 | US-10-719-900-822755 | Sequence 822755, | C 372 | 15 | 0.6 | 25 | 10 | US-11-036-317-14991 | Sequence 14991, A |
| 295 | 15 | 0.6 | 25 | 8 | US-10-719-900-823408 | Sequence 823408, | C 373 | 15 | 0.6 | 25 | 10 | US-11-036-317-38049 | Sequence 38049, A |
| 296 | 15 | 0.6 | 25 | 8 | US-10-719-900-849489 | Sequence 849489, | C 374 | 15 | 0.6 | 25 | 10 | US-11-036-317-55493 | Sequence 55493, A |
| 297 | 15 | 0.6 | 25 | 8 | US-10-719-900-916028 | Sequence 916028, | C 375 | 15 | 0.6 | 25 | 10 | US-11-036-317-83985 | Sequence 83985, A |
| 298 | 15 | 0.6 | 25 | 8 | US-10-719-900-977527 | Sequence 977527, | C 376 | 15 | 0.6 | 25 | 10 | US-11-036-317-86631 | Sequence 86631, A |
| 299 | 15 | 0.6 | 25 | 9 | US-10-809-189-15297 | Sequence 15297, A | C 377 | 15 | 0.6 | 25 | 10 | US-11-036-317-96094 | Sequence 96094, A |
| 300 | 15 | 0.6 | 25 | 9 | US-10-809-189-33215 | Sequence 33215, A | C 378 | 15 | 0.6 | 25 | 10 | US-11-036-317-100780 | Sequence 100780, A |
| 301 | 15 | 0.6 | 25 | 9 | US-10-809-189-33216 | Sequence 33216, A | C 379 | 15 | 0.6 | 25 | 10 | US-11-036-317-106364 | Sequence 106364, A |
| 302 | 15 | 0.6 | 25 | 9 | US-10-809-189-33217 | Sequence 33217, A | C 380 | 15 | 0.6 | 25 | 10 | US-11-036-317-114807 | Sequence 114807, A |
| 303 | 15 | 0.6 | 25 | 9 | US-10-809-189-86205 | Sequence 86205, A | C 381 | 15 | 0.6 | 25 | 10 | US-11-036-317-119063 | Sequence 119063, A |
| 304 | 15 | 0.6 | 25 | 9 | US-10-809-189-100375 | Sequence 100375, | C 382 | 15 | 0.6 | 25 | 10 | US-11-036-317-120378 | Sequence 120378, A |
| 305 | 15 | 0.6 | 25 | 9 | US-10-809-189-102939 | Sequence 102939, | C 383 | 15 | 0.6 | 25 | 10 | US-11-036-317-145702 | Sequence 145702, A |
| 306 | 15 | 0.6 | 25 | 9 | US-10-809-189-102940 | Sequence 102940, | C 384 | 15 | 0.6 | 25 | 10 | US-11-036-317-158948 | Sequence 158948, A |
| 307 | 15 | 0.6 | 25 | 9 | US-10-809-189-116214 | Sequence 116214, | C 385 | 15 | 0.6 | 25 | 10 | US-11-036-317-204089 | Sequence 204089, A |
| 308 | 15 | 0.6 | 25 | 9 | US-10-809-189-116214 | Sequence 116214, | C 386 | 15 | 0.6 | 25 | 10 | US-11-036-317-231303 | Sequence 231303, A |
| 309 | 15 | 0.6 | 25 | 9 | US-10-956-157-46686 | Sequence 46686, A | C 387 | 15 | 0.6 | 25 | 10 | US-11-036-317-231721 | Sequence 231721, A |
| 310 | 15 | 0.6 | 25 | 9 | US-10-956-157-46690 | Sequence 46690, A | C 388 | 15 | 0.6 | 25 | 10 | US-11-036-317-236665 | Sequence 236665, A |

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| 389 | 15 | 0.6 | 25 | 10 | US-11-036-317-240642 | Sequence 240642, | 462 | 15 | 0.6 | 27 | 5 | US-10-139-583-32 | Sequence 32, Appl |
| 390 | 15 | 0.6 | 25 | 10 | US-11-036-317-248113 | Sequence 248113, | 463 | 15 | 0.6 | 27 | 5 | US-10-264-361-15 | Sequence 15, Appl |
| 391 | 15 | 0.6 | 25 | 10 | US-11-036-317-248485 | Sequence 248485, | 464 | 15 | 0.6 | 27 | 5 | US-10-315-379-16 | Sequence 16, Appl |
| 392 | 15 | 0.6 | 25 | 10 | US-11-036-317-250907 | Sequence 250907, | 465 | 15 | 0.6 | 27 | 8 | US-10-877-623-30 | Sequence 30, Appl |
| 393 | 15 | 0.6 | 25 | 10 | US-11-036-317-267810 | Sequence 267810, | 466 | 15 | 0.6 | 27 | 9 | US-10-938-375-15 | Sequence 15, Appl |
| 394 | 15 | 0.6 | 25 | 10 | US-11-036-317-283906 | Sequence 283906, | 467 | 15 | 0.6 | 27 | 9 | US-10-957-311-4 | Sequence 4, Appl |
| 395 | 15 | 0.6 | 25 | 10 | US-11-036-317-314711 | Sequence 314711, | 468 | 15 | 0.6 | 27 | 10 | US-10-888-610-15 | Sequence 15, Appl |
| 396 | 15 | 0.6 | 25 | 10 | US-11-036-317-335456 | Sequence 335456, | 469 | 15 | 0.6 | 27 | 10 | US-11-021-088-32 | Sequence 32, Appl |
| 397 | 15 | 0.6 | 25 | 10 | US-11-036-317-343641 | Sequence 343641, | 470 | 15 | 0.6 | 27 | 10 | US-11-080-803-30 | Sequence 30, Appl |
| 398 | 15 | 0.6 | 25 | 10 | US-11-036-317-358715 | Sequence 358715, | 471 | 15 | 0.6 | 27 | 10 | US-11-149-564-33 | Sequence 33, Appl |
| 399 | 15 | 0.6 | 25 | 10 | US-11-036-317-383472 | Sequence 383472, | 472 | 15 | 0.6 | 28 | 6 | US-10-333-379-14 | Sequence 14, Appl |
| 400 | 15 | 0.6 | 25 | 10 | US-11-036-317-405380 | Sequence 405380, | 473 | 14 | 0.6 | 17 | 5 | US-10-163-552-491 | Sequence 491, Appl |
| 401 | 15 | 0.6 | 25 | 10 | US-11-036-317-415894 | Sequence 415894, | 474 | 14 | 0.6 | 17 | 9 | US-10-724-270-5146 | Sequence 5146, Ap |
| 402 | 15 | 0.6 | 25 | 10 | US-11-036-317-418972 | Sequence 418972, | C 475 | 14 | 0.6 | 17 | 9 | US-10-631-467-1669 | Sequence 1669, Ap |
| 403 | 15 | 0.6 | 25 | 10 | US-11-036-317-426911 | Sequence 426911, | C 476 | 14 | 0.6 | 18 | 6 | US-10-349-143-9350 | Sequence 9350, Ap |
| 404 | 15 | 0.6 | 25 | 10 | US-11-036-317-474463 | Sequence 474463, | 477 | 14 | 0.6 | 18 | 8 | US-10-488-724-17 | Sequence 17, Appl |
| 405 | 15 | 0.6 | 25 | 10 | US-11-036-317-479640 | Sequence 479640, | C 478 | 14 | 0.6 | 18 | 8 | US-10-626-832-106 | Sequence 106, App |
| 406 | 15 | 0.6 | 25 | 10 | US-11-036-317-506363 | Sequence 506363, | C 479 | 14 | 0.6 | 19 | 8 | US-10-800-487-39 | Sequence 39, Appl |
| 407 | 15 | 0.6 | 25 | 10 | US-11-036-317-540115 | Sequence 540115, | C 480 | 14 | 0.6 | 19 | 8 | US-10-800-487-205 | Sequence 205, App |
| 408 | 15 | 0.6 | 25 | 10 | US-11-036-317-568056 | Sequence 568056, | C 481 | 14 | 0.6 | 19 | 9 | US-10-923-330-175 | Sequence 175, App |
| 409 | 15 | 0.6 | 25 | 10 | US-11-036-317-573035 | Sequence 573035, | 482 | 14 | 0.6 | 19 | 9 | US-10-923-330-398 | Sequence 398, App |
| 410 | 15 | 0.6 | 25 | 10 | US-11-036-317-615124 | Sequence 615124, | 483 | 14 | 0.6 | 19 | 9 | US-10-923-181-39 | Sequence 39, Appl |
| 411 | 15 | 0.6 | 25 | 10 | US-11-036-317-660447 | Sequence 660447, | C 484 | 14 | 0.6 | 19 | 9 | US-10-923-181-205 | Sequence 205, App |
| 412 | 15 | 0.6 | 25 | 10 | US-11-036-317-674861 | Sequence 674861, | C 485 | 14 | 0.6 | 20 | 3 | US-09-824-322B-495 | Sequence 495, App |
| 413 | 15 | 0.6 | 25 | 10 | US-11-036-317-681370 | Sequence 681370, | C 486 | 14 | 0.6 | 20 | 3 | US-09-961-001-80 | Sequence 80, Appl |
| 414 | 15 | 0.6 | 25 | 10 | US-11-036-317-700522 | Sequence 700522, | C 487 | 14 | 0.6 | 20 | 5 | US-10-191-513A-48 | Sequence 48, Appl |
| 415 | 15 | 0.6 | 25 | 10 | US-11-036-317-765959 | Sequence 765959, | C 488 | 14 | 0.6 | 20 | 6 | US-10-448-836-204 | Sequence 204, App |
| 416 | 15 | 0.6 | 25 | 10 | US-11-036-317-789363 | Sequence 789363, | C 489 | 14 | 0.6 | 20 | 6 | US-10-148-835-86 | Sequence |

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|-------|----|-----|----|---|----------------------|------------------|-------|----|-----|----|---|----------------------|-------------------|
| c 681 | 14 | 0.6 | 25 | 7 | US-10-719-956-224280 | Sequence 224280, | 754 | 14 | 0.6 | 25 | 7 | US-10-719-956-538049 | Sequence 538049, |
| 682 | 14 | 0.6 | 25 | 7 | US-10-719-956-224366 | Sequence 224366, | 755 | 14 | 0.6 | 25 | 7 | US-10-719-956-545270 | Sequence 545270, |
| 683 | 14 | 0.6 | 25 | 7 | US-10-719-956-224378 | Sequence 224378, | c 756 | 14 | 0.6 | 25 | 7 | US-10-719-956-552378 | Sequence 552378, |
| c 684 | 14 | 0.6 | 25 | 7 | US-10-719-956-229903 | Sequence 229903, | 757 | 14 | 0.6 | 25 | 7 | US-10-719-956-572898 | Sequence 572898, |
| 685 | 14 | 0.6 | 25 | 7 | US-10-719-956-234098 | Sequence 234098, | 758 | 14 | 0.6 | 25 | 7 | US-10-719-956-574530 | Sequence 574530, |
| c 686 | 14 | 0.6 | 25 | 7 | US-10-719-956-238225 | Sequence 238225, | 759 | 14 | 0.6 | 25 | 7 | US-10-719-956-579438 | Sequence 579438, |
| c 687 | 14 | 0.6 | 25 | 7 | US-10-719-956-241315 | Sequence 241315, | 760 | 14 | 0.6 | 25 | 7 | US-10-719-956-580064 | Sequence 580064, |
| c 688 | 14 | 0.6 | 25 | 7 | US-10-719-956-242923 | Sequence 242923, | 761 | 14 | 0.6 | 25 | 7 | US-10-719-956-581237 | Sequence 581237, |
| c 689 | 14 | 0.6 | 25 | 7 | US-10-719-956-244118 | Sequence 244118, | 762 | 14 | 0.6 | 25 | 7 | US-10-719-956-584670 | Sequence 584670, |
| 690 | 14 | 0.6 | 25 | 7 | US-10-719-956-244202 | Sequence 244202, | c 763 | 14 | 0.6 | 25 | 7 | US-10-719-956-587240 | Sequence 587240, |
| 691 | 14 | 0.6 | 25 | 7 | US-10-719-956-249904 | Sequence 249904, | c 764 | 14 | 0.6 | 25 | 7 | US-10-719-956-593047 | Sequence 593047, |
| 692 | 14 | 0.6 | 25 | 7 | US-10-719-956-250863 | Sequence 250863, | c 765 | 14 | 0.6 | 25 | 7 | US-10-719-956-595661 | Sequence 595661, |
| c 693 | 14 | 0.6 | 25 | 7 | US-10-719-956-253703 | Sequence 253703, | c 766 | 14 | 0.6 | 25 | 7 | US-10-719-956-600318 | Sequence 600318, |
| c 694 | 14 | 0.6 | 25 | 7 | US-10-719-956-253703 | Sequence 253703, | c 767 | 14 | 0.6 | 25 | 7 | US-10-719-956-601553 | Sequence 601553, |
| 695 | 14 | 0.6 | 25 | 7 | US-10-719-956-255417 | Sequence 255417, | 768 | 14 | 0.6 | 25 | 7 | US-10-719-956-606653 | Sequence 606653, |
| 696 | 14 | 0.6 | 25 | 7 | US-10-719-956-260057 | Sequence 260057, | c 769 | 14 | 0.6 | 25 | 7 | US-10-719-956-608930 | Sequence 608930, |
| c 697 | 14 | 0.6 | 25 | 7 | US-10-719-956-277466 | Sequence 277466, | c 770 | 14 | 0.6 | 25 | 7 | US-10-719-956-622221 | Sequence 622221, |
| 698 | 14 | 0.6 | 25 | 7 | US-10-719-956-297191 | Sequence 297191, | c 771 | 14 | 0.6 | 25 | 7 | US-10-719-956-622388 | Sequence 622388, |
| c 699 | 14 | 0.6 | 25 | 7 | US-10-719-956-297949 | Sequence 297949, | 772 | 14 | 0.6 | 25 | 7 | US-10-719-956-622869 | Sequence 622869, |
| 700 | 14 | 0.6 | 25 | 7 | US-10-719-956-299870 | Sequence 299870, | c 773 | 14 | 0.6 | 25 | 7 | US-10-719-956-625196 | Sequence 625196, |
| c 701 | 14 | 0.6 | 25 | 7 | US-10-719-956-300447 | Sequence 300447, | c 774 | 14 | 0.6 | 25 | 7 | US-10-719-956-626639 | Sequence 626639, |
| 702 | 14 | 0.6 | 25 | 7 | US-10-719-956-306002 | Sequence 306002, | c 775 | 14 | 0.6 | 25 | 7 | US-10-719-956-627553 | Sequence 627553, |
| c 703 | 14 | 0.6 | 25 | 7 | US-10-719-956-306897 | Sequence 306897, | c 776 | 14 | 0.6 | 25 | 7 | US-10-719-956-627992 | Sequence 627992, |
| 704 | 14 | 0.6 | 25 | 7 | US-10-719-956-307552 | Sequence 307552, | c 777 | 14 | 0.6 | 25 | 7 | US-10-719-956-630850 | Sequence 630850, |
| c 705 | 14 | 0.6 | 25 | 7 | US-10-719-956-308837 | Sequence 308837, | c 778 | 14 | 0.6 | 25 | 7 | US-10-719-956-631008 | Sequence 631008, |
| 706 | 14 | 0.6 | 25 | 7 | US-10-719-956-312088 | Sequence 312088, | 779 | 14 | 0.6 | 25 | 7 | US-10-719-956-634126 | Sequence 634126, |
| 707 | 14 | 0.6 | 25 | 7 | US-10-719-956-314081 | Sequence 314081, | 780 | 14 | 0.6 | 25 | 7 | US-10-719-956-636288 | Sequence 636288, |
| c 708 | 14 | 0.6 | 25 | 7 | US-10-719-956-316422 | Sequence 316422, | 781 | 14 | 0.6 | 25 | 7 | US-10-719-956-636652 | Sequence 636652, |
| c 709 | 14 | 0.6 | 25 | 7 | US-10-719-956-344606 | Sequence 344606, | 782 | 14 | 0.6 | 25 | 7 | US-10-719-956-636890 | Sequence 636890, |
| 710 | 14 | 0.6 | 25 | 7 | US-10-719-956-350472 | Sequence 350472, | 783 | 14 | 0.6 | 25 | 7 | US-10-719-956-641748 | Sequence 641748, |
| c 711 | 14 | 0.6 | 25 | 7 | US-10-719-956-351079 | Sequence 351079, | 784 | 14 | 0.6 | 25 | 7 | US-10-719-956-643972 | Sequence 643972, |
| c 712 | 14 | 0.6 | 25 | 7 | US-10-719-956-351140 | Sequence 351140, | 785 | 14 | 0.6 | 25 | 7 | US-10-719-956-646114 | Sequence 646114, |
| 713 | 14 | 0.6 | 25 | 7 | US-10-719-956-362408 | Sequence 362408, | 786 | 14 | 0.6 | 25 | 7 | US-10-719-956-649546 | Sequence 649546, |
| c 714 | 14 | 0.6 | 25 | 7 | US-10-719-956-366963 | Sequence 366963, | 787 | 14 | 0.6 | 25 | 7 | US-10-719-956-651225 | Sequence 651225, |
| 715 | 14 | 0.6 | 25 | 7 | US-10-719-956-367393 | Sequence 367393, | 788 | 14 | 0.6 | 25 | 7 | US-10-719-956-651590 | Sequence 651590, |
| c 716 | 14 | 0.6 | 25 | 7 | US-10-719-956-367410 | Sequence 367410, | 789 | 14 | 0.6 | 25 | 7 | US-10-719-956-651636 | Sequence 651636, |
| c 717 | 14 | 0.6 | 25 | 7 | US-10-719-956-372560 | Sequence 372560, | c 790 | 14 | 0.6 | 25 | 7 | US-10-719-956-655629 | Sequence 655629, |
| c 718 | 14 | 0.6 | 25 | 7 | US-10-719-956-379182 | Sequence 379182, | c 791 | 14 | 0.6 | 25 | 7 | US-10-719-956-657712 | Sequence 657712, |
| 719 | 14 | 0.6 | 25 | 7 | US-10-719-956-379739 | Sequence 379739, | c 792 | 14 | 0.6 | 25 | 7 | US-10-719-956-661698 | Sequence 661698, |
| c 720 | 14 | 0.6 | 25 | 7 | US-10-719-956-384780 | Sequence 384780, | c 793 | 14 | 0.6 | 25 | 7 | US-10-719-956-663666 | Sequence 663666, |
| 721 | 14 | 0.6 | 25 | 7 | US-10-719-956-387433 | Sequence 387433, | c 794 | 14 | 0.6 | 25 | 7 | US-10-719-956-664759 | Sequence 664759, |
| 722 | 14 | 0.6 | 25 | 7 | US-10-719-956-387896 | Sequence 387896, | c 795 | 14 | 0.6 | 25 | 7 | US-10-719-956-666815 | Sequence 666815, |
| 723 | 14 | 0.6 | 25 | 7 | US-10-719-956-393900 | Sequence 393900, | 796 | 14 | 0.6 | 25 | 7 | US-10-719-956-666845 | Sequence 666845, |
| c 724 | 14 | 0.6 | 25 | 7 | US-10-719-956-395764 | Sequence 395764, | 797 | 14 | 0.6 | 25 | 7 | US-10-719-956-666942 | Sequence 666942, |
| c 725 | 14 | 0.6 | 25 | 7 | US-10-719-956-398493 | Sequence 398493, | 798 | 14 | 0.6 | 25 | 7 | US-10-719-956-667641 | Sequence 667641, |
| c 726 | 14 | 0.6 | 25 | 7 | US-10-719-956-398804 | Sequence 398804, | c 799 | 14 | 0.6 | 25 | 7 | US-10-719-956-677087 | Sequence 677087, |
| 727 | 14 | 0.6 | 25 | 7 | US-10-719-956-402764 | Sequence 402764, | c 800 | 14 | 0.6 | 25 | 7 | US-10-719-956-680044 | Sequence 680044, |
| c 728 | 14 | 0.6 | 25 | 7 | US-10-719-956-403782 | Sequence 403782, | c 801 | 14 | 0.6 | 25 | 7 | US-10-719-956-687001 | Sequence 687001, |
| 729 | 14 | 0.6 | 25 | 7 | US-10-719-956-407574 | Sequence 407574, | 802 | 14 | 0.6 | 25 | 7 | US-10-719-956-696628 | Sequence 696628, |
| c 730 | 14 | 0.6 | 25 | 7 | US-10-719-956-428923 | Sequence 428923, | 803 | 14 | 0.6 | 25 | 8 | US-10-775-169-2571 | Sequence 2571, Ap |
| c 731 | 14 | 0.6 | 25 | 7 | US-10-719-956-431239 | Sequence 431239, | c 804 | 14 | 0.6 | 25 | 8 | Sequence 2712, Ap | Sequence 2712, Ap |
| c 732 | 14 | 0.6 | 25 | 7 | US-10-719-956-436945 | Sequence 436945, | c 805 | 14 | 0.6 | 25 | 8 | Sequence 4920, Ap | Sequence 4920, Ap |
| 733 | 14 | 0.6 | 25 | 7 | US-10-719-956-437998 | Sequence 437998, | c 806 | 14 | 0.6 | 25 | 8 | Sequence 1254, Ap | Sequence 1254, Ap |
| 734 | 14 | 0.6 | 25 | 7 | US-10-719-956-446281 | Sequence 446281, | 807 | 14 | 0.6 | 25 | 8 | Sequence 6150, Ap | Sequence 6150, Ap |
| c 735 | 14 | 0.6 | 25 | 7 | US-10-719-956-449005 | Sequence 449005, | 808 | 14 | 0.6 | 25 | 8 | Sequence 17233, A | Sequence 17233, A |
| c 736 | 14 | 0.6 | 25 | 7 | US-10-719-956-454879 | Sequence 454879, | c 809 | 14 | 0.6 | 25 | 8 | Sequence 19322, A | Sequence 19322, A |
| c 737 | 14 | 0.6 | 25 | 7 | US-10-719-956-464339 | Sequence 464339, | c 810 | 14 | 0.6 | 25 | 8 | Sequence 22890, A | Sequence 22890, A |
| 738 | 14 | 0.6 | 25 | 7 | US-10-719-956-470718 | Sequence 470718, | 811 | 14 | 0.6 | 25 | 8 | Sequence 26509, A | Sequence 26509, A |
| c 739 | 14 | 0.6 | 25 | 7 | US-10-719-956-476665 | Sequence 476665, | 812 | 14 | 0.6 | 25 | 8 | Sequence 30412, A | Sequence 30412, A |
| c 740 | 14 | 0.6 | 25 | 7 | US-10-719-956-483703 | Sequence 483703, | 813 | 14 | 0.6 | 25 | 8 | Sequence 31269, A | Sequence 31269, A |
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ALIGNMENTS

RESULT 1
US-10-074-978A-525
; Sequence 525, Application US/10074978A
; Publication No. US20040010119A1
; GENERAL INFORMATION:
; APPLICANT: Leite, Mario
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Guo, Xiaojia (Saasha)
; APPLICANT: Fernandes, Elma
; APPLICANT: Li, Li
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Liu, Xiaohong
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Patturajan, Meera
; APPLICANT: Blalock, Angela
; APPLICANT: Ballinger, Robert
; APPLICANT: Vernet, Corine
; APPLICANT: Tchernav, Velizar T
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter S
; APPLICANT: Ellerman, Karen
; APPLICANT: Heyes, Melvin P
; APPLICANT: Herrman, John
; APPLICANT: Pena, Carol E A
; APPLICANT: Shinkets, Richard A
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Moore, No. US20040010119A1lle
; APPLICANT: Shenoy, Suresh
; APPLICANT: Edinger, Shlomit
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, Dave
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennnda
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-269
; CURRENT APPLICATION NUMBER: US/10/074, 978A

; CURRENT FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/269,221
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/335,109
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/312,284
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: 60/269,496
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: 60/276,703
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/330,293
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/322,127
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/280,899
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/310,797
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/269,646
; PRIOR FILING DATE: 2001-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 525
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
; OTHER INFORMATION: sequence
US-10-074-978A-525

Query Match 1.1%; Score 26; DB 6; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CTTTCCTGCCCTCAGGAAGTCAATT 26
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RESULT 2

US-10-262-839-315
; Sequence 315, Application US/10262839
; Publication No. US20040038877A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, John,
; APPLICANT: Anderson, David W.,
; APPLICANT: Boldog, Ferenc,
; APPLICANT: Burgess, Catherine,
; APPLICANT: Catterton, Elina,
; APPLICANT: Edinger, Shlomit,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Gorman, Linda,
; APPLICANT: Guo, Xiaojia,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Leach, Martin,
; APPLICANT: Li, Li,
; APPLICANT: Miller, Charles,
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; APPLICANT: Shinkets, Richard,
; APPLICANT: Smithson, Glennnda,
; APPLICANT: Spytek, Kimberly,
; APPLICANT: Taupier, Raymond, jr.,
; APPLICANT: Vernet, Corine,
; APPLICANT: Voss, Edward,
; APPLICANT: Zerhusen, Brian,
; APPLICANT: Zhong, Mei

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; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-462A
; CURRENT APPLICATION NUMBER: US/10/262,839
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 60/326,483
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/381,101
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/371,972
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/327,342
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 60/328,044
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,849
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/374,738
; PRIOR FILING DATE: 2002-04-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 367
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 315
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer/Probe
US-10-262-839-315

Query Match 1.1%; Score 26; DB 7; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 739 CTTTCCTGCCCCGTGAGGAGTCAATT 764
Db 1 CTTTCCTGCCCCGTGAGGAGTCAATT 26

RESULT 3
US-10-262-839-318
; Sequence 318, Application US/10262839
; Publication No. US20040038877A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, John,
; APPLICANT: Anderson, David W.,
; APPLICANT: Boldog, Ferenc,
; APPLICANT: Burgess, Catherine,
; APPLICANT: Catterton, Elina,
; APPLICANT: Edinger, Shalomit,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Gorman, Linda,
; APPLICANT: Guo, Xiaojia,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Leach, Martin,
; APPLICANT: Li, Li,
; APPLICANT: Miller, Charles,
; APPLICANT: Fatturajan, Meera,
; APPLICANT: Reiger, Daniel,
; APPLICANT: Rothenberg, Mark,
; APPLICANT: Shinkets, Richard,
; APPLICANT: Smithson, Glenna,
; APPLICANT: Spytek, Kimberly, jr.,
; APPLICANT: Taupier, Raymond,
; APPLICANT: Vernet, Corine,
; APPLICANT: Voss, Edward,
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; APPLICANT: Zerhusen, Brian,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-462A
; CURRENT APPLICATION NUMBER: US/10/262,839
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 60/326,483
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/381,101
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/371,972
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/327,342
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 60/328,044
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,849
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/374,738
; PRIOR FILING DATE: 2002-04-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 367
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 318
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer/Probe
US-10-262-839-318

Query Match 1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 200 AACGAGGGCTTCTATTCCAGCACGT 224
Db 1 AACGAGGGCTTCTATTCCAGCACGT 25

RESULT 4
US-11-036-317-266946
; Sequence 266946, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 266946
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-266946

Query Match 1.0%; Score 24; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 533 TCACCTCAGCTGCCCAACATGTTT 556
```

```
Db      2 TCACCTACGCTGCCCAACATGTTT 25
;
; CURRENT FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/268,221
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/335,109
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/312,284
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: 60/268,496
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: 60/276,703
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/330,293
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/322,127
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/280,899
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/310,797
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/268,646
; PRIOR FILING DATE: 2001-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 524
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
; OTHER INFORMATION: sequence
US-10-074-978A-524

Query Match      0.9%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      533 TCACCTACGCTGCCCAACATGTT 555
|||||
Db      3 TCACCTACGCTGCCCAACATGTT 25

RESULT 6
US-10-074-978A-524
; Sequence 524, Application US/10074978A
; Publication No. US20040010119A1
; GENERAL INFORMATION:
; APPLICANT: Leite, Mario
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Guo, Xiaojia (Sasha)
; APPLICANT: Fernandes, Elma
; APPLICANT: Li, Li
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Liu, Xiahong
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Patturajan, Meera
; APPLICANT: Blalock, Angela
; APPLICANT: Ballinger, Robert
; APPLICANT: Vernet, Corine
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter S
; APPLICANT: Ellerman, Karen
; APPLICANT: Heyes, Melvin P
; APPLICANT: Herrman, John
; APPLICANT: Pena, Carol E A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Moore, No. US20040010119A1lle
; APPLICANT: Shenoy, Suresh

Query Match      1.0%; Score 23; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.85;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      533 TCACCTACGCTGCCCAACATGTT 555
|||||
Db      3 TCACCTACGCTGCCCAACATGTT 25

RESULT 5
US-11-036-317-250427
; Sequence 250427, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 250427
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-250427

Query Match      1.0%; Score 23; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.85;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      533 TCACCTACGCTGCCCAACATGTT 555
|||||
Db      3 TCACCTACGCTGCCCAACATGTT 25

RESULT 7
US-10-074-978A-526/c
; Sequence 526, Application US/10074978A
; Publication No. US20040010119A1
; GENERAL INFORMATION:
; APPLICANT: Leite, Mario
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Guo, Xiaojia (Sasha)
; APPLICANT: Fernandes, Elma
; APPLICANT: Li, Li
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Liu, Xiahong
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Patturajan, Meera
; APPLICANT: Blalock, Angela
; APPLICANT: Ballinger, Robert
; APPLICANT: Vernet, Corine
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter S
; APPLICANT: Ellerman, Karen
; APPLICANT: Heyes, Melvin P
; APPLICANT: Herrman, John
; APPLICANT: Pena, Carol E A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Moore, No. US20040010119A1lle
; APPLICANT: Shenoy, Suresh

Query Match      100.0%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      692 GCCTGCCTTATCTTCTGAACT 713
|||||
Db      1 GCCTGCCTTATCTTCTGAACT 22

RESULT 7
US-10-074-978A-526/c
; Sequence 526, Application US/10074978A
; Publication No. US20040010119A1
; GENERAL INFORMATION:
; APPLICANT: Leite, Mario
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Guo, Xiaojia (Sasha)
; APPLICANT: Fernandes, Elma
; APPLICANT: Li, Li
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Liu, Xiahong
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Patturajan, Meera
; APPLICANT: Blalock, Angela
; APPLICANT: Ballinger, Robert
; APPLICANT: Vernet, Corine
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter S
; APPLICANT: Ellerman, Karen
; APPLICANT: Heyes, Melvin P
; APPLICANT: Herrman, John
; APPLICANT: Pena, Carol E A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Moore, No. US20040010119A1lle
; APPLICANT: Shenoy, Suresh
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; APPLICANT: Edinger, Shlomit
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, Dave
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glenda
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-269
; CURRENT APPLICATION NUMBER: US/10/074,978A
; PRIOR FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/268,221
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/335,109
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/312,284
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: 60/268,496
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: 60/276,703
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/330,293
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/322,127
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/280,899
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/310,797
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/268,646
; PRIOR FILING DATE: 2001-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 526
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
; OTHER INFORMATION: sequence
US-10-074-978A-526

Query Match 0.9%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 767 ACAGAGAGATCAAGCTGAGTG 788
Db 22 ACAGAGAGATCAAGCTGAGTG 1

RESULT 8
US-10-262-839-314
; Sequence 314, Application US/10262839
; Publication No. US2004003887A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, John,
; APPLICANT: Anderson, David W.,
; APPLICANT: Boldog, Ferenc,
; APPLICANT: Burgess, Catherine,
; APPLICANT: Catterton, Elina,
; APPLICANT: Edinger, Shlomit,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Gorman, Linda,
; APPLICANT: Guo, Xiaojia,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Leach, Martin,
; APPLICANT: Li, Li,
; APPLICANT: Miller, Charles,
; APPLICANT: Patturajan, Meera,
; APPLICANT: Reiger, Daniel,
```

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; APPLICANT: Rothenberg, Mark,
; APPLICANT: Shimkets, Richard,
; APPLICANT: Smithson, Glenda,
; APPLICANT: Spytek, Kimberly,
; APPLICANT: Taupier, Raymond, Jr.,
; APPLICANT: Vernhet, Corine,
; APPLICANT: Voss, Edward,
; APPLICANT: Zerhusen, Brian,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-462A
; CURRENT APPLICATION NUMBER: US/10/262,839
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 60/326,483
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/381,101
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/371,972
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/327,342
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 60/328,044
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,849
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/374,738
; PRIOR FILING DATE: 2002-04-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 367
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 314
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer/Probe
US-10-262-839-314

Query Match 0.9%; Score 22; DB 7; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 692 GCCTGCCTTATCTTTCTGAAC 713
Db 1 GCCTGCCTTATCTTTCTGAAC 22

RESULT 9
US-10-262-839-316/c
; Sequence 316, Application US/10262839
; Publication No. US2004003887A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, John,
; APPLICANT: Anderson, David W.,
; APPLICANT: Boldog, Ferenc,
; APPLICANT: Burgess, Catherine,
; APPLICANT: Catterton, Elina,
; APPLICANT: Edinger, Shlomit,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Gorman, Linda,
; APPLICANT: Guo, Xiaojia,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Leach, Martin,
; APPLICANT: Li, Li,
; APPLICANT: Miller, Charles,
```

```
/ APPLICANT: Patturajan, Meera,
/ APPLICANT: Reiger, Daniel,
/ APPLICANT: Rothenberg, Mark,
/ APPLICANT: Shinkets, Richard,
/ APPLICANT: Smithson, Glennnda,
/ APPLICANT: Spytek, Kimberly,
/ APPLICANT: Taupier, Raymond, jr.,
/ APPLICANT: Vernet, Corine,
/ APPLICANT: Voss, Edward,
/ APPLICANT: Zerhusen, Brian,
/ APPLICANT: Zhong, Mei
/ TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
/ FILE REFERENCE: 21402-462A
/ CURRENT APPLICATION NUMBER: US/10/262,839
/ PRIOR FILING DATE: 2002-10-01
/ PRIOR FILING DATE: 2001-10-02
/ PRIOR APPLICATION NUMBER: 60/326,483
/ PRIOR FILING DATE: 2001-10-02
/ PRIOR FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: 60/327,917
/ PRIOR FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: 60/328,029
/ PRIOR FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: 60/328,056
/ PRIOR FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: 60/381,101
/ PRIOR FILING DATE: 2002-05-16
/ PRIOR APPLICATION NUMBER: 60/371,972
/ PRIOR FILING DATE: 2002-04-12
/ PRIOR APPLICATION NUMBER: 60/327,342
/ PRIOR FILING DATE: 2001-10-05
/ PRIOR APPLICATION NUMBER: 60/328,044
/ PRIOR FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: 60/328,849
/ PRIOR FILING DATE: 2001-10-12
/ PRIOR APPLICATION NUMBER: 60/374,738
/ PRIOR FILING DATE: 2002-04-23
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 367
/ SOFTWARE: CuraSeqList version 0.1
/ SEQ ID NO 316
/ LENGTH: 22
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Primer/Probe
/ US-10-262-839-316

Query Match      0.9%; Score 22; DB 7; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      767  ACGAAGAGATCAAGCTGAGTG 788
Db      22  ACGAAGAGATCAAGCTGAGTG 1
|||||

RESULT 10
US-11-036-317-178901
/ Sequence 178901, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 178901
/ LENGTH: 25
/ TYPE: DNA
```

```
/ ORGANISM: Mus musculus
US-11-036-317-178901

Query Match      0.9%; Score 22; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      533  TCACCTCAGCTGCCCAACATGT 554
Db      4    TCACCTCAGCTGCCCAACATGT 25
|||||

RESULT 11
US-11-036-317-349781
/ Sequence 349781, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 349781
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-349781

Query Match      0.9%; Score 21; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.9;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      533  TCACCTCAGCTGCCCAACATG 553
Db      5    TCACCTCAGCTGCCCAACATG 25
|||||

RESULT 12
US-10-262-839-317
/ Sequence 317, Application US/10262839
/ Publication No. US20040038877A1
/ GENERAL INFORMATION:
/ APPLICANT: Alsobrook, John,
/ APPLICANT: Anderson, David W.,
/ APPLICANT: Boldog, Ferenc,
/ APPLICANT: Burgess, Catherine,
/ APPLICANT: Catterton, Elina,
/ APPLICANT: Edinger, Shlomit,
/ APPLICANT: Ellerman, Karen,
/ APPLICANT: Gerlach, Valerie,
/ APPLICANT: Gorman, Linda,
/ APPLICANT: Guo, Xiaojia,
/ APPLICANT: Ji, Weizhen,
/ APPLICANT: Kekuda, Ramesh,
/ APPLICANT: Leach, Martin,
/ APPLICANT: Li, Li,
/ APPLICANT: Miller, Charles,
/ APPLICANT: Patturajan, Meera,
/ APPLICANT: Reiger, Daniel,
/ APPLICANT: Rothenberg, Mark,
/ APPLICANT: Shinkets, Richard,
/ APPLICANT: Smithson, Glennnda,
/ APPLICANT: Spytek, Kimberly,
/ APPLICANT: Taupier, Raymond, jr.,
/ APPLICANT: Vernet, Corine,
/ APPLICANT: Voss, Edward,
/ APPLICANT: Zerhusen, Brian,
/ APPLICANT: Zhong, Mei
```

```
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-462A
; CURRENT APPLICATION NUMBER: US/10/262,839
; PRIOR FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 60/326,483
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/381,101
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/371,972
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/327,342
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 60/328,044
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,849
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/374,738
; PRIOR FILING DATE: 2002-04-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 367
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 317
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer/Probe
US-10-262-839-317

Query Match          0.9%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 GCTCCCTGTGTGATCATTCG 196
Db 1 GCTCCCTGTGTGATCATTCG 20

RESULT 13
US-11-036-317-388123
; Sequence 388123, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 388123
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-388123

Query Match          0.9%; Score 20; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 533 TCACCTACGCTGCCCAACAT 552
Db 6 TCACCTACGCTGCCCAACAT 25

RESULT 14
US-11-036-317-396530
; Sequence 396530, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 396530
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-396530

Query Match          0.8%; Score 19; DB 10; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 533 TCACCTACGCTGCCCAACA 551
Db 7 TCACCTACGCTGCCCAACA 25

RESULT 15
US-10-719-956-10440/c
; Sequence 10440, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 10440
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-10440

Query Match          0.8%; Score 18; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 298 GATGCTCAACCTGGGCTT 315
Db 19 GATGCTCAACCTGGGCTT 2

RESULT 16
US-10-719-900-509070/c
; Sequence 509070, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
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; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 509070
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-509070
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Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1247 GGCAGTGTCTCGGAGAT 1264
      |||||
Db 19 GGCAGTGTCTCGGAGAT 2
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RESULT 17

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US-10-919-964-684
; Sequence 684, Application US/10919964
; Publication No. US20050176665A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Sirna Therapeutics, Inc.
```

```
; APPLICANT: McSwiggen, James
```

```
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Hairless (HR) Gene
```

```
; FILE REFERENCE: 400/224 (MHB04-378-C)
```

```
; CURRENT APPLICATION NUMBER: US/10/919,964
```

```
; PRIORITY FILING DATE: 2004-08-17
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```
; PRIOR APPLICATION NUMBER: US 10/832,522
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; PRIOR FILING DATE: 2004-04-26
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; PRIOR APPLICATION NUMBER: US 10/830,569
```

```
; PRIOR FILING DATE: 2004-04-23
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; PRIOR APPLICATION NUMBER: US 10/825,485
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; PRIOR FILING DATE: 2004-04-15
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; PRIOR APPLICATION NUMBER: PCT/US04/16390
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; PRIOR FILING DATE: 2004-05-24
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; PRIOR APPLICATION NUMBER: US 10/826,966
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; PRIOR FILING DATE: 2004-04-16
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; PRIOR APPLICATION NUMBER: US 10/757,803
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; PRIOR FILING DATE: 2004-01-14
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; PRIOR APPLICATION NUMBER: US 10/720,448
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; PRIOR FILING DATE: 2003-11-24
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; PRIOR APPLICATION NUMBER: US 10/693,059
```

```
; PRIOR FILING DATE: 2003-10-23
```

```
; PRIOR APPLICATION NUMBER: US 10/444,853
```

```
; PRIOR FILING DATE: 2003-05-23
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; PRIOR APPLICATION NUMBER: PCT/US03/05346
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```
; PRIOR FILING DATE: 2003-02-20
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; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 1142
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; SOFTWARE: PatentIn version 3.3
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```
; SEQ ID NO 684
```

```
; LENGTH: 23
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```
; TYPE: RNA
```

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; ORGANISM: Artificial Sequence
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; FEATURE:
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```
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense 1
US-10-919-964-684
```

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Query Match          0.7%; Score 17; DB 9; Length 23;
Best Local Similarity 58.8%; Pred. No. 1.3e+03;
Matches 10; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1653 TGCTTCTCTACTCTTC 1669
      :|||:|:|:|:|:|:|
Db 1 UGCCUUCUACCUUCUC 17
```

RESULT 18

```
US-09-845-042-19
```

```
; Sequence 19, Application US/09845042
```

```
; Publication No. US20030092177A1
```

```
; GENERAL INFORMATION:
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; APPLICANT: BELARDELLI, FILIPPO
; APPLICANT: SANTINI, STEFANO MARIA
; APPLICANT: PARLATO, STEFANIA
; APPLICANT: DI PUCCHIO, TIZIANA
; APPLICANT: LOGOZZI, MARIANTONIA
; APPLICANT: LAPENTA, CATERINA
; APPLICANT: FERRANTINI, MARIA
; APPLICANT: SANTODONATO, LAURA
; APPLICANT: D'AGOSTINO, GIUSEPPINA
; TITLE OF INVENTION: METHOD FOR GENERATING HIGHLY ACTIVE HUMAN DENDRITIC
; FILE REFERENCE: 618742-8/JP/B-4161
; CURRENT APPLICATION NUMBER: US/09/845,042
; PRIORITY FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-845-042-19
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Query Match          0.7%; Score 17; DB 3; Length 24;
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Best Local Similarity 100.0%; Pred. No. 1.3e+03;
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Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 694 CTGCCTTATCTTCTGA 710
```

```
Db 8 CTGCCTTATCTTCTGA 24
```

RESULT 19

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US-10-098-263B-94493/c
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; Sequence 94493, Application US/10098263B
```

```
; Publication No. US20030104410A1
```

```
; GENERAL INFORMATION:
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```
; APPLICANT: Mittman, Michael
```

```
; TITLE OF INVENTION: Human Microarray
```

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; FILE REFERENCE: 3118.1
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; CURRENT APPLICATION NUMBER: US/10/098,263B
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; CURRENT FILING DATE: 2003-01-08
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; PRIOR APPLICATION NUMBER: 60/276,759
```

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; PRIOR FILING DATE: 2001-03-16
```

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; NUMBER OF SEQ ID NOS: 131066
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; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
```

```
; SEQ ID NO 94493
```

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; LENGTH: 25
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapien
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```
US-10-098-263B-94493
```

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Query Match          0.7%; Score 17; DB 5; Length 25;
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Best Local Similarity 100.0%; Pred. No. 1.3e+03;
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Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 801 ACCACAAGGTGACAGGT 817
```

```
Db 20 ACCACAAGGTGACAGGT 4
```

RESULT 20

```
US-10-719-956-396920/c
```

```
; Sequence 396920, Application US/10719956
```

```
; Publication No. US20040146910A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Xue Mei Zhou
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; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
```

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; FILE REFERENCE: 3527.1
```

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; CURRENT APPLICATION NUMBER: US/10/719,956
```

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; CURRENT FILING DATE: 2003-11-20
```

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; PRIOR APPLICATION NUMBER: 60/427,836
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; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 396920
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-396920

Query Match 0.7%; Score 17; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 368 ATGGACCGCTTTGGCCC 384
|||
Db 25 ATGGACCGCTTTGGCCC 9

Search completed: January 13, 2006, 14:55:53
Job time : 1913 secs

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GenCore version 5.1.6
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QM nucleic - nucleic search, using sw model

Run on: January 13, 2006, 08:27:55 ; Search time 415 Seconds
(without alignments)

4536.251 Million cell updates/sec

Title: US-09-743-825-1

Perfect score: 2326

Sequence: 1 ccggggctggagggggcaaa.....agggaagtggagaaaaaaa 2326

Scoring table: OLIGO_NUC

Gapop_60.0 , Gapext 60.0

Searched: 6038814 seqs, 404674181 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11464086

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Listing first 1000 summaries

Database : Published Applications_NA_New.*

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- 2: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq.*
- 5: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq.*
- 6: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq.*
- 7: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq.*
- 8: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq2.*
- 9: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq3.*
- 10: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-----------------------|
| C 1 | 28 | 1.2 | 28 | 6 | US-10-310-914A-313804 |
| C 2 | 27 | 1.2 | 27 | 6 | US-10-310-914A-313800 |
| C 3 | 26 | 1.1 | 26 | 6 | US-10-310-914A-313768 |
| C 4 | 26 | 1.1 | 27 | 6 | US-10-310-914A-313797 |
| C 5 | 25 | 1.1 | 25 | 6 | US-10-310-914A-313755 |
| C 6 | 25 | 1.1 | 25 | 6 | US-10-310-914A-313776 |
| C 7 | 25 | 1.1 | 25 | 6 | US-10-310-914A-313796 |
| C 8 | 25 | 1.1 | 25 | 7 | US-11-121-849-135610 |
| C 9 | 25 | 1.1 | 25 | 7 | US-11-121-849-135611 |
| C 10 | 25 | 1.1 | 25 | 7 | US-11-121-849-135612 |
| C 11 | 25 | 1.1 | 25 | 7 | US-11-121-849-135613 |
| C 12 | 25 | 1.1 | 25 | 7 | US-11-121-849-135614 |
| C 13 | 25 | 1.1 | 25 | 7 | US-11-121-849-135615 |
| C 14 | 25 | 1.1 | 25 | 7 | US-11-121-849-135616 |
| C 15 | 25 | 1.1 | 25 | 7 | US-11-121-849-135617 |
| C 16 | 25 | 1.1 | 25 | 7 | US-11-121-849-135618 |
| C 17 | 25 | 1.1 | 25 | 7 | US-11-121-849-135619 |
| C 18 | 25 | 1.1 | 25 | 7 | US-11-121-849-135620 |
| C 19 | 24 | 1.0 | 24 | 6 | US-10-310-914A-313763 |
| C 20 | 24 | 1.0 | 24 | 6 | US-10-310-914A-313802 |
| C 21 | 23 | 1.0 | 23 | 6 | US-10-310-914A-313757 |
| C 22 | 23 | 1.0 | 23 | 6 | US-10-310-914A-313758 |
| C 23 | 23 | 1.0 | 23 | 6 | US-10-310-914A-313761 |

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|-------------------|-----------------------|----|-----|----|------|
| Sequence 313767, | US-10-310-914A-313767 | 23 | 1.0 | 23 | C 24 |
| Sequence 313778, | US-10-310-914A-313778 | 23 | 1.0 | 23 | C 25 |
| Sequence 313788, | US-10-310-914A-313788 | 23 | 1.0 | 23 | C 26 |
| Sequence 313759, | US-10-310-914A-313759 | 22 | 0.9 | 22 | C 27 |
| Sequence 313760, | US-10-310-914A-313760 | 22 | 0.9 | 22 | C 28 |
| Sequence 313765, | US-10-310-914A-313765 | 22 | 0.9 | 22 | C 29 |
| Sequence 313792, | US-10-310-914A-313792 | 22 | 0.9 | 22 | C 30 |
| Sequence 313793, | US-10-310-914A-313793 | 22 | 0.9 | 22 | C 31 |
| Sequence 313754, | US-10-310-914A-313754 | 21 | 0.9 | 21 | C 32 |
| Sequence 313764, | US-10-310-914A-313764 | 21 | 0.9 | 21 | C 33 |
| Sequence 313771, | US-10-310-914A-313771 | 21 | 0.9 | 21 | C 34 |
| Sequence 313772, | US-10-310-914A-313772 | 21 | 0.9 | 21 | C 35 |
| Sequence 313777, | US-10-310-914A-313777 | 21 | 0.9 | 21 | C 36 |
| Sequence 313779, | US-10-310-914A-313779 | 21 | 0.9 | 21 | C 37 |
| Sequence 313785, | US-10-310-914A-313785 | 21 | 0.9 | 21 | C 38 |
| Sequence 313795, | US-10-310-914A-313795 | 21 | 0.9 | 21 | C 39 |
| Sequence 313798, | US-10-310-914A-313798 | 21 | 0.9 | 21 | C 40 |
| Sequence 313801, | US-10-310-914A-313801 | 21 | 0.9 | 21 | C 41 |
| Sequence 313756, | US-10-310-914A-313756 | 20 | 0.9 | 20 | C 42 |
| Sequence 313766, | US-10-310-914A-313766 | 20 | 0.9 | 20 | C 43 |
| Sequence 313769, | US-10-310-914A-313769 | 20 | 0.9 | 20 | C 44 |
| Sequence 313770, | US-10-310-914A-313770 | 20 | 0.9 | 20 | C 45 |
| Sequence 313773, | US-10-310-914A-313773 | 20 | 0.9 | 20 | C 46 |
| Sequence 313774, | US-10-310-914A-313774 | 20 | 0.9 | 20 | C 47 |
| Sequence 313789, | US-10-310-914A-313789 | 20 | 0.9 | 20 | C 48 |
| Sequence 313803, | US-10-310-914A-313803 | 20 | 0.9 | 20 | C 49 |
| Sequence 26, Appl | US-11-088-634A-26 | 20 | 0.9 | 20 | C 50 |
| Sequence 27, Appl | US-11-088-634A-27 | 20 | 0.9 | 20 | C 51 |
| Sequence 313762, | US-10-310-914A-313762 | 19 | 0.8 | 19 | C 52 |
| Sequence 313780, | US-10-310-914A-313780 | 19 | 0.8 | 19 | C 53 |
| Sequence 313781, | US-10-310-914A-313781 | 19 | 0.8 | 19 | C 54 |
| Sequence 313782, | US-10-310-914A-313782 | 19 | 0.8 | 19 | C 55 |
| Sequence 313783, | US-10-310-914A-313783 | 19 | 0.8 | 19 | C 56 |
| Sequence 313786, | US-10-310-914A-313786 | 19 | 0.8 | 19 | C 57 |
| Sequence 313787, | US-10-310-914A-313787 | 19 | 0.8 | 19 | C 58 |
| Sequence 313791, | US-10-310-914A-313791 | 19 | 0.8 | 19 | C 59 |
| Sequence 313799, | US-10-310-914A-313799 | 19 | 0.8 | 19 | C 60 |
| Sequence 577341, | US-11-101-244-577341 | 61 | 19 | 61 | |
| Sequence 577342, | US-11-101-244-577342 | 62 | 19 | 62 | |
| Sequence 577343, | US-11-101-244-577343 | 63 | 19 | 63 | |
| Sequence 577344, | US-11-101-244-577344 | 64 | 19 | 64 | |
| Sequence 577345, | US-11-101-244-577345 | 65 | 19 | 65 | |
| Sequence 577346, | US-11-101-244-577346 | 66 | 19 | 66 | |
| Sequence 577347, | US-11-101-244-577347 | 67 | 19 | 67 | |
| Sequence 577348, | US-11-101-244-577348 | 68 | 19 | 68 | |
| Sequence 577349, | US-11-101-244-577349 | 69 | 19 | 69 | |
| Sequence 577350, | US-11-101-244-577350 | 70 | 19 | 70 | |
| Sequence 577351, | US-11-101-244-577351 | 71 | 19 | 71 | |
| Sequence 577352, | US-11-101-244-577352 | 72 | 19 | 72 | |
| Sequence 577353, | US-11-101-244-577353 | 73 | 19 | 73 | |
| Sequence 577354, | US-11-101-244-577354 | 74 | 19 | 74 | |
| Sequence 577355, | US-11-101-244-577355 | 75 | 19 | 75 | |
| Sequence 577356, | US-11-101-244-577356 | 76 | 19 | 76 | |
| Sequence 577357, | US-11-101-244-577357 | 77 | 19 | 77 | |
| Sequence 577358, | US-11-101-244-577358 | 78 | 19 | 78 | |
| Sequence 577359, | US-11-101-244-577359 | 79 | 19 | 79 | |
| Sequence 577360, | US-11-101-244-577360 | 80 | 19 | 80 | |
| Sequence 577361, | US-11-101-244-577361 | 81 | 19 | 81 | |
| Sequence 577362, | US-11-101-244-577362 | 82 | 19 | 82 | |
| Sequence 577363, | US-11-101-244-577363 | 83 | 19 | 83 | |
| Sequence 577364, | US-11-101-244-577364 | 84 | 19 | 84 | |
| Sequence 577365, | US-11-101-244-577365 | 85 | 19 | 85 | |
| Sequence 577366, | US-11-101-244-577366 | 86 | 19 | 86 | |
| Sequence 577367, | US-11-101-244-577367 | 87 | 19 | 87 | |
| Sequence 577368, | US-11-101-244-577368 | 88 | 19 | 88 | |
| Sequence 577369, | US-11-101-244-577369 | 89 | 19 | 89 | |
| Sequence 577370, | US-11-101-244-577370 | 90 | 19 | 90 | |
| Sequence 577371, | US-11-101-244-577371 | 91 | 19 | 91 | |
| Sequence 577372, | US-11-101-244-577372 | 92 | 19 | 92 | |
| Sequence 577373, | US-11-101-244-577373 | 93 | 19 | 93 | |
| Sequence 577374, | US-11-101-244-577374 | 94 | 19 | 94 | |
| Sequence 577375, | US-11-101-244-577375 | 95 | 19 | 95 | |
| Sequence 577376, | US-11-101-244-577376 | 96 | 19 | 96 | |

| | | | | | | | | | | | | | | |
|-------|----|-----|----|-----|------------------------|-----------------------|------------------|-------|-----|-----|----|------------------------|------------------------|-------------------|
| c 243 | 18 | 0.8 | 18 | 0.8 | 6 | US-10-310-914A-313775 | Sequence 313775, | c 316 | 16 | 0.7 | 20 | 6 | US-10-310-914A-1042754 | Sequence 1042754, |
| c 244 | 18 | 0.8 | 18 | 0.8 | 6 | US-10-310-914A-313784 | Sequence 313784, | 317 | 16 | 0.7 | 20 | 6 | US-10-310-914A-1279442 | Sequence 1279442, |
| c 245 | 18 | 0.8 | 18 | 0.8 | 6 | US-10-310-914A-313790 | Sequence 313790, | 318 | 16 | 0.7 | 21 | 6 | US-10-310-914A-170175 | Sequence 170175, |
| c 246 | 18 | 0.8 | 18 | 0.8 | 6 | US-10-310-914A-313794 | Sequence 313794, | 319 | 16 | 0.7 | 21 | 6 | US-10-310-914A-895635 | Sequence 895635, |
| c 247 | 18 | 0.8 | 21 | 6 | US-10-310-914A-499152 | Sequence 499152, | 320 | 16 | 0.7 | 21 | 6 | US-10-310-914A-1050830 | Sequence 1050830, | |
| c 248 | 18 | 0.8 | 24 | 6 | US-10-310-914A-21948 | Sequence 21948, A | 321 | 16 | 0.7 | 21 | 6 | US-10-310-914A-1097570 | Sequence 1097570, | |
| c 249 | 18 | 0.8 | 24 | 6 | US-10-310-914A-22733 | Sequence 22733, A | 322 | 16 | 0.7 | 21 | 6 | US-10-310-914A-1175651 | Sequence 1175651, | |
| c 250 | 18 | 0.8 | 24 | 6 | US-10-310-914A-24534 | Sequence 24534, A | 323 | 16 | 0.7 | 22 | 6 | US-10-310-914A-45564 | Sequence 45564, A | |
| c 251 | 18 | 0.8 | 24 | 6 | US-10-310-914A-29780 | Sequence 29780, A | 324 | 16 | 0.7 | 22 | 6 | US-10-310-914A-45565 | Sequence 45565, A | |
| c 252 | 18 | 0.8 | 24 | 6 | US-10-310-914A-35351 | Sequence 35351, A | 325 | 16 | 0.7 | 23 | 6 | US-10-528-031-37 | Sequence 37, Appl | |
| c 253 | 18 | 0.8 | 24 | 6 | US-10-310-914A-40965 | Sequence 40965, A | 326 | 16 | 0.7 | 23 | 6 | US-10-310-914A-108538 | Sequence 108538, | |
| c 254 | 18 | 0.8 | 24 | 6 | US-10-310-914A-1367124 | Sequence 1367124, | 327 | 16 | 0.7 | 23 | 6 | US-10-310-914A-1280711 | Sequence 1280711, | |
| c 255 | 18 | 0.8 | 25 | 7 | US-11-136-527-101952 | Sequence 101952, | 328 | 16 | 0.7 | 23 | 6 | US-10-310-914A-1379195 | Sequence 1379195, | |
| c 256 | 18 | 0.8 | 25 | 7 | US-11-136-527-101953 | Sequence 101953, | 329 | 16 | 0.7 | 24 | 6 | US-10-310-914A-152054 | Sequence 152054, | |
| c 257 | 18 | 0.8 | 25 | 7 | US-11-136-527-101988 | Sequence 101988, | 330 | 16 | 0.7 | 24 | 6 | US-10-310-914A-760959 | Sequence 760959, | |
| c 258 | 18 | 0.8 | 25 | 7 | US-11-136-527-101989 | Sequence 101989, | 331 | 16 | 0.7 | 24 | 6 | US-10-310-914A-1050806 | Sequence 1050806, | |
| c 259 | 18 | 0.8 | 25 | 7 | US-11-136-527-101990 | Sequence 101990, | 332 | 16 | 0.7 | 25 | 6 | US-10-775-169-1289 | Sequence 1289, Ap | |
| c 260 | 17 | 0.7 | 18 | 6 | US-10-310-914A-319199 | Sequence 319199, | 333 | 16 | 0.7 | 25 | 6 | US-10-310-914A-1104527 | Sequence 1104527, | |
| c 261 | 17 | 0.7 | 19 | 8 | US-11-101-244-1426461 | Sequence 1426461, | 334 | 16 | 0.7 | 25 | 7 | US-11-121-849-63025 | Sequence 63025, A | |
| c 262 | 17 | 0.7 | 19 | 9 | US-11-083-784-1426461 | Sequence 1426461, | 335 | 16 | 0.7 | 25 | 7 | US-11-121-849-153409 | Sequence 153409, | |
| c 263 | 17 | 0.7 | 20 | 6 | US-10-310-914A-53738 | Sequence 53738, A | 336 | 16 | 0.7 | 25 | 7 | US-11-121-849-329805 | Sequence 329805, | |
| c 264 | 17 | 0.7 | 21 | 6 | US-10-310-914A-848017 | Sequence 848017, | 337 | 16 | 0.7 | 25 | 7 | US-11-121-849-555187 | Sequence 555187, | |
| c 265 | 17 | 0.7 | 21 | 6 | US-10-310-914A-1374052 | Sequence 1374052, | 338 | 16 | 0.7 | 25 | 7 | US-11-136-527-40672 | Sequence 40672, A | |
| c 266 | 17 | 0.7 | 22 | 6 | US-10-310-914A-319266 | Sequence 319266, | 339 | 16 | 0.7 | 25 | 7 | US-11-136-527-40673 | Sequence 40673, A | |
| c 267 | 17 | 0.7 | 22 | 6 | US-10-310-914A-743795 | Sequence 743795, | 340 | 16 | 0.7 | 25 | 7 | US-11-136-527-231258 | Sequence 231258, | |
| c 268 | 17 | 0.7 | 22 | 6 | US-10-310-914A-753053 | Sequence 753053, | 341 | 16 | 0.7 | 25 | 7 | US-11-136-527-234157 | Sequence 234157, | |
| c 269 | 17 | 0.7 | 22 | 6 | US-10-310-914A-848000 | Sequence 848000, | 342 | 16 | 0.7 | 25 | 7 | US-11-136-527-234166 | Sequence 234166, | |
| c 270 | 17 | 0.7 | 23 | 6 | US-10-310-914A-507224 | Sequence 507224, | 343 | 16 | 0.7 | 25 | 7 | US-11-136-527-234174 | Sequence 234174, | |
| c 271 | 17 | 0.7 | 23 | 6 | US-10-310-914A-743803 | Sequence 743803, | 344 | 16 | 0.7 | 25 | 7 | US-11-136-527-234177 | Sequence 234177, | |
| c 272 | 17 | 0.7 | 23 | 6 | US-10-310-914A-1185920 | Sequence 1185920, | 345 | 16 | 0.7 | 26 | 6 | US-10-310-914A-898048 | Sequence 898048, | |
| c 273 | 17 | 0.7 | 24 | 6 | US-10-310-914A-418902 | Sequence 418902, | 346 | 16 | 0.7 | 26 | 6 | US-10-310-914A-1005534 | Sequence 1005534, | |
| c 274 | 17 | 0.7 | 24 | 6 | US-10-310-914A-743860 | Sequence 743860, | 347 | 16 | 0.7 | 26 | 6 | US-10-310-914A-1238694 | Sequence 1238694, | |
| c 275 | 17 | 0.7 | 25 | 7 | US-11-121-849-364775 | Sequence 364775, | 348 | 16 | 0.7 | 27 | 6 | US-10-310-914A-47596 | Sequence 47596, A | |
| c 276 | 17 | 0.7 | 25 | 7 | US-11-136-527-101991 | Sequence 101991, | 349 | 15 | 0.6 | 18 | 6 | US-10-310-914A-173227 | Sequence 173227, | |
| c 277 | 17 | 0.7 | 25 | 7 | US-11-136-527-303604 | Sequence 303604, | 350 | 15 | 0.6 | 18 | 6 | US-10-310-914A-222090 | Sequence 222090, | |
| c 278 | 17 | 0.7 | 27 | 6 | US-10-310-914A-666347 | Sequence 666347, | 351 | 15 | 0.6 | 18 | 6 | US-10-310-914A-228966 | Sequence 228966, | |
| c 279 | 16 | 0.7 | 18 | 6 | US-10-310-914A-45517 | Sequence 45517, A | 352 | 15 | 0.6 | 18 | 6 | US-10-310-914A-458758 | Sequence 458758, | |
| c 280 | 16 | 0.7 | 18 | 6 | US-10-310-914A-45518 | Sequence 45518, A | 353 | 15 | 0.6 | 18 | 6 | US-10-310-914A-507185 | Sequence 507185, | |
| c 281 | 16 | 0.7 | 18 | 6 | US-10-310-914A-1238675 | Sequence 1238675, | 354 | 15 | 0.6 | 18 | 6 | US-10-310-914A-781989 | Sequence 781989, | |
| c 282 | 16 | 0.7 | 19 | 6 | US-10-310-914A-225899 | Sequence 225899, | 355 | 15 | 0.6 | 18 | 6 | US-10-310-914A-964255 | Sequence 964255, | |
| c 283 | 16 | 0.7 | 19 | 6 | US-10-310-914A-627089 | Sequence 627089, | 356 | 15 | 0.6 | 18 | 6 | US-10-310-914A-998961 | Sequence 998961, | |
| c 284 | 16 | 0.7 | 19 | 6 | US-10-310-914A-848092 | Sequence 848092, | 357 | 15 | 0.6 | 18 | 6 | US-10-310-914A-998962 | Sequence 998962, | |
| c 285 | 16 | 0.7 | 19 | 6 | US-10-310-914A-1104524 | Sequence 1104524, | 358 | 15 | 0.6 | 19 | 6 | US-10-923-476A-72 | Sequence 72, Appl | |
| c 286 | 16 | 0.7 | 19 | 6 | US-10-310-914A-1166731 | Sequence 1166731, | 359 | 15 | 0.6 | 19 | 6 | US-10-923-476A-147 | Sequence 147, Appl | |
| c 287 | 16 | 0.7 | 19 | 6 | US-10-310-914A-1175644 | Sequence 1175644, | 360 | 15 | 0.6 | 19 | 6 | US-10-310-914A-84143 | Sequence 84143, A | |
| c 288 | 16 | 0.7 | 19 | 8 | US-11-101-244-104989 | Sequence 104989, | 361 | 15 | 0.6 | 19 | 6 | US-10-310-914A-163725 | Sequence 163725, | |
| c 289 | 16 | 0.7 | 19 | 8 | US-11-101-244-105035 | Sequence 105035, | 362 | 15 | 0.6 | 19 | 6 | US-10-310-914A-208135 | Sequence 208135, | |
| c 290 | 16 | 0.7 | 19 | 8 | US-11-101-244-105039 | Sequence 105039, | 363 | 15 | 0.6 | 19 | 6 | US-10-310-914A-208136 | Sequence 208136, | |
| c 291 | 16 | 0.7 | 19 | 8 | US-11-101-244-105148 | Sequence 105148, | 364 | 15 | 0.6 | 19 | 6 | US-10-310-914A-212535 | Sequence 212535, | |
| c 292 | 16 | 0.7 | 19 | 8 | US-11-101-244-219158 | Sequence 219158, | 365 | 15 | 0.6 | 19 | 6 | US-10-310-914A-228951 | Sequence 228951, | |
| c 293 | 16 | 0.7 | 19 | 8 | US-11-101-244-250856 | Sequence 250856, | 366 | 15 | 0.6 | 19 | 6 | US-10-310-914A-228953 | Sequence 228953, | |
| c 294 | 16 | 0.7 | 19 | 8 | US-11-101-244-695540 | Sequence 695540, | 367 | 15 | 0.6 | 19 | 6 | US-10-310-914A-274398 | Sequence 274398, | |
| c 295 | 16 | 0.7 | 19 | 8 | US-11-101-244-695643 | Sequence 695643, | 368 | 15 | 0.6 | 19 | 6 | US-10-310-914A-290343 | Sequence 290343, | |
| c 296 | 16 | 0.7 | 19 | 8 | US-11-101-244-696893 | Sequence 696893, | 369 | 15 | 0.6 | 19 | 6 | US-10-310-914A-390689 | Sequence 390689, | |
| c 297 | 16 | 0.7 | 19 | 8 | US-11-101-244-1084071 | Sequence 1084071, | 370 | 15 | 0.6 | 19 | 6 | US-10-310-914A-458771 | Sequence 458771, | |
| c 298 | 16 | 0.7 | 19 | 8 | US-11-101-244-1084164 | Sequence 1084164, | 371 | 15 | 0.6 | 19 | 6 | US-10-310-914A-627167 | Sequence 627167, | |
| c 299 | 16 | 0.7 | 19 | 8 | US-11-101-244-1223983 | Sequence 1223983, | 372 | 15 | 0.6 | 19 | 6 | US-10-310-914A-747935 | Sequence 747935, | |
| c 300 | 16 | 0.7 | 19 | 8 | US-11-101-244-1326838 | Sequence 1326838, | 373 | 15 | 0.6 | 19 | 6 | US-10-310-914A-837724 | Sequence 837724, | |
| c 301 | 16 | 0.7 | 19 | 9 | US-11-083-784-104989 | Sequence 104989, | 374 | 15 | 0.6 | 19 | 6 | US-10-310-914A-890343 | Sequence 890343, | |
| c 302 | 16 | 0.7 | 19 | 9 | US-11-083-784-105035 | Sequence 105035, | 375 | 15 | 0.6 | 19 | 6 | US-10-310-914A-972913 | Sequence 972913, | |
| c 303 | 16 | 0.7 | 19 | 9 | US-11-083-784-105039 | Sequence 105039, | 376 | 15 | 0.6 | 19 | 6 | US-10-310-914A-998949 | Sequence 998949, | |
| c 304 | 16 | 0.7 | 19 | 9 | US-11-083-784-105148 | Sequence 105148, | 377 | 15 | 0.6 | 19 | 6 | US-10-310-914A-998950 | Sequence 998950, | |
| c 305 | 16 | 0.7 | 19 | 9 | US-11-083-784-219158 | Sequence 219158, | 378 | 15 | 0.6 | 19 | 6 | US-10-310-914A-1159610 | Sequence 1159610, | |
| c 306 | 16 | 0.7 | 19 | 9 | US-11-083-784-250856 | Sequence 250856, | 379 | 15 | 0.6 | 19 | 6 | US-10-310-914A-1181827 | Sequence 1181827, | |
| c 307 | 16 | 0.7 | 19 | 9 | US-11-083-784-695540 | Sequence 695540, | 380 | 15 | 0.6 | 19 | 6 | US-10-310-914A-1185812 | Sequence 1185812, | |
| c 308 | 16 | 0.7 | 19 | 9 | US-11-083-784-695643 | Sequence 695643, | 381 | 15 | 0.6 | 19 | 8 | US-11-101-244-16808 | Sequence 16808, A | |
| c 309 | 16 | 0.7 | 19 | 9 | US-11-083-784-696893 | Sequence 696893, | 382 | 15 | 0.6 | 19 | 8 | US-11-101-244-54415 | Sequence 54415, A | |
| c 310 | 16 | 0.7 | 19 | 9 | US-11-083-784-1084071 | Sequence 1084071, | 383 | 15 | 0.6 | 19 | 8 | US-11-101-244-54430 | Sequence 54430, A | |
| c 311 | 16 | 0.7 | 19 | 9 | US-11-083-783 | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------|----|-----|----|---|-----------------------|-------------------|-------|----|-----|----|---|------------------------|--------------------|
| C 389 | 15 | 0.6 | 19 | 8 | US-11-101-244-97865 | Sequence 97865, A | C 452 | 15 | 0.6 | 19 | 9 | US-11-083-784-850344 | Sequence 850344, |
| C 390 | 15 | 0.6 | 19 | 8 | US-11-101-244-97866 | Sequence 97866, A | C 453 | 15 | 0.6 | 19 | 9 | US-11-083-784-874306 | Sequence 874306, |
| C 391 | 15 | 0.6 | 19 | 8 | US-11-101-244-155013 | Sequence 155013, | C 454 | 15 | 0.6 | 19 | 9 | US-11-083-784-879931 | Sequence 879931, |
| C 392 | 15 | 0.6 | 19 | 8 | US-11-101-244-185250 | Sequence 185250, | C 455 | 15 | 0.6 | 19 | 9 | US-11-083-784-896788 | Sequence 896788, |
| C 393 | 15 | 0.6 | 19 | 8 | US-11-101-244-219239 | Sequence 219239, | C 456 | 15 | 0.6 | 19 | 9 | US-11-083-784-1025748 | Sequence 1025748, |
| C 394 | 15 | 0.6 | 19 | 8 | US-11-101-244-226075 | Sequence 226075, | C 457 | 15 | 0.6 | 19 | 9 | US-11-083-784-1168720 | Sequence 1168720, |
| C 395 | 15 | 0.6 | 19 | 8 | US-11-101-244-250899 | Sequence 250899, | C 458 | 15 | 0.6 | 19 | 9 | US-11-083-784-1178493 | Sequence 1178493, |
| C 396 | 15 | 0.6 | 19 | 8 | US-11-101-244-258655 | Sequence 258655, | C 459 | 15 | 0.6 | 19 | 9 | US-11-083-784-1180226 | Sequence 1180226, |
| C 397 | 15 | 0.6 | 19 | 8 | US-11-101-244-337545 | Sequence 337545, | C 460 | 15 | 0.6 | 19 | 9 | US-11-083-784-1210728 | Sequence 1210728, |
| C 398 | 15 | 0.6 | 19 | 8 | US-11-101-244-415664 | Sequence 415664, | C 471 | 15 | 0.6 | 19 | 9 | US-11-083-784-1217996 | Sequence 1217996, |
| C 399 | 15 | 0.6 | 19 | 8 | US-11-101-244-415763 | Sequence 415763, | C 472 | 15 | 0.6 | 19 | 9 | US-11-083-784-1224276 | Sequence 1224276, |
| C 400 | 15 | 0.6 | 19 | 8 | US-11-101-244-415864 | Sequence 415864, | C 473 | 15 | 0.6 | 19 | 9 | US-11-083-784-1316218 | Sequence 1316218, |
| C 401 | 15 | 0.6 | 19 | 8 | US-11-101-244-448080 | Sequence 464080, | C 474 | 15 | 0.6 | 19 | 9 | US-11-083-784-1377012 | Sequence 1377012, |
| C 402 | 15 | 0.6 | 19 | 8 | US-11-101-244-464085 | Sequence 464085, | C 475 | 15 | 0.6 | 19 | 9 | US-11-083-784-1377029 | Sequence 1377029, |
| C 403 | 15 | 0.6 | 19 | 8 | US-11-101-244-464162 | Sequence 464162, | C 476 | 15 | 0.6 | 19 | 9 | US-11-083-784-1377032 | Sequence 1377032, |
| C 404 | 15 | 0.6 | 19 | 8 | US-11-101-244-501497 | Sequence 501497, | C 477 | 15 | 0.6 | 19 | 9 | US-11-083-784-1377048 | Sequence 1377048, |
| C 405 | 15 | 0.6 | 19 | 8 | US-11-101-244-558987 | Sequence 558987, | C 478 | 15 | 0.6 | 19 | 9 | US-11-083-784-1422897 | Sequence 1422897, |
| C 406 | 15 | 0.6 | 19 | 8 | US-11-101-244-560548 | Sequence 560548, | C 479 | 15 | 0.6 | 19 | 9 | US-11-083-784-1422905 | Sequence 1422905, |
| C 407 | 15 | 0.6 | 19 | 8 | US-11-101-244-637525 | Sequence 637525, | C 480 | 15 | 0.6 | 19 | 9 | US-11-083-784-1520163 | Sequence 1520163, |
| C 408 | 15 | 0.6 | 19 | 8 | US-11-101-244-683504 | Sequence 683504, | C 481 | 15 | 0.6 | 19 | 9 | US-11-083-784-1589946 | Sequence 1589946, |
| C 409 | 15 | 0.6 | 19 | 8 | US-11-101-244-814960 | Sequence 814960, | C 482 | 15 | 0.6 | 19 | 9 | US-11-083-784-1590049 | Sequence 1590049, |
| C 410 | 15 | 0.6 | 19 | 8 | US-11-101-244-850299 | Sequence 850299, | C 483 | 15 | 0.6 | 20 | 6 | US-10-310-914A-104387 | Sequence 104387, |
| C 411 | 15 | 0.6 | 19 | 8 | US-11-101-244-850344 | Sequence 850344, | C 484 | 15 | 0.6 | 20 | 6 | US-10-310-914A-109708 | Sequence 109708, |
| C 412 | 15 | 0.6 | 19 | 8 | US-11-101-244-874306 | Sequence 874306, | C 485 | 15 | 0.6 | 20 | 6 | US-10-310-914A-109709 | Sequence 109709, |
| C 413 | 15 | 0.6 | 19 | 8 | US-11-101-244-879931 | Sequence 879931, | C 486 | 15 | 0.6 | 20 | 6 | US-10-310-914A-173265 | Sequence 173265, |
| C 414 | 15 | 0.6 | 19 | 8 | US-11-101-244-896788 | Sequence 896788, | C 487 | 15 | 0.6 | 20 | 6 | US-10-310-914A-208137 | Sequence 208137, |
| C 415 | 15 | 0.6 | 19 | 8 | US-11-101-244-1025748 | Sequence 1025748, | C 488 | 15 | 0.6 | 20 | 6 | US-10-310-914A-316783 | Sequence 316783, |
| C 416 | 15 | 0.6 | 19 | 8 | US-11-101-244-1168720 | Sequence 1168720, | C 489 | 15 | 0.6 | 20 | 6 | US-10-310-914A-458754 | Sequence 458754, |
| C 417 | 15 | 0.6 | 19 | 8 | US-11-101-244-1178493 | Sequence 1178493, | C 490 | 15 | 0.6 | 20 | 6 | US-10-310-914A-458786 | Sequence 458786, |
| C 418 | 15 | 0.6 | 19 | 8 | US-11-101-244-1180226 | Sequence 1180226, | C 491 | 15 | 0.6 | 20 | 6 | US-10-310-914A-657786 | Sequence 657786, |
| C 419 | 15 | 0.6 | 19 | 8 | US-11-101-244-1210728 | Sequence 1210728, | C 492 | 15 | 0.6 | 20 | 6 | US-10-310-914A-920453 | Sequence 920453, |
| C 420 | 15 | 0.6 | 19 | 8 | US-11-101-244-1217996 | Sequence 1217996, | C 493 | 15 | 0.6 | 20 | 6 | US-10-310-914A-973113 | Sequence 973113, |
| C 421 | 15 | 0.6 | 19 | 8 | US-11-101-244-1224276 | Sequence 1224276, | C 494 | 15 | 0.6 | 20 | 6 | US-10-310-914A-1159398 | Sequence 1159398, |
| C 422 | 15 | 0.6 | 19 | 8 | US-11-101-244-1316218 | Sequence 1316218, | C 495 | 15 | 0.6 | 21 | 6 | US-10-310-914A-53716 | Sequence 53716, A |
| C 423 | 15 | 0.6 | 19 | 8 | US-11-101-244-1377012 | Sequence 1377012, | C 496 | 15 | 0.6 | 21 | 6 | US-10-310-914A-108225 | Sequence 108225, |
| C 424 | 15 | 0.6 | 19 | 8 | US-11-101-244-1377029 | Sequence 1377029, | C 497 | 15 | 0.6 | 21 | 6 | US-10-310-914A-113472 | Sequence 113472, |
| C 425 | 15 | 0.6 | 19 | 8 | US-11-101-244-1377032 | Sequence 1377032, | C 498 | 15 | 0.6 | 21 | 6 | US-10-310-914A-226701 | Sequence 226701, |
| C 426 | 15 | 0.6 | 19 | 8 | US-11-101-244-1377048 | Sequence 1377048, | C 499 | 15 | 0.6 | 21 | 6 | US-10-310-914A-265829 | Sequence 265829, |
| C 427 | 15 | 0.6 | 19 | 8 | US-11-101-244-1422897 | Sequence 1422897, | C 500 | 15 | 0.6 | 21 | 6 | US-10-310-914A-367926 | Sequence 367926, |
| C 428 | 15 | 0.6 | 19 | 8 | US-11-101-244-1422905 | Sequence 1422905, | C 501 | 15 | 0.6 | 21 | 6 | US-10-310-914A-389827 | Sequence 389827, |
| C 429 | 15 | 0.6 | 19 | 8 | US-11-101-244-1520163 | Sequence 1520163, | C 502 | 15 | 0.6 | 21 | 6 | US-10-310-914A-549067 | Sequence 549067, |
| C 430 | 15 | 0.6 | 19 | 8 | US-11-101-244-1589946 | Sequence 1589946, | C 503 | 15 | 0.6 | 21 | 6 | US-10-310-914A-648006 | Sequence 648006, |
| C 431 | 15 | 0.6 | 19 | 8 | US-11-101-244-1590049 | Sequence 1590049, | C 504 | 15 | 0.6 | 21 | 6 | US-10-310-914A-657787 | Sequence 657787, |
| C 432 | 15 | 0.6 | 19 | 9 | US-11-083-784-16808 | Sequence 16808, A | C 505 | 15 | 0.6 | 21 | 6 | US-10-310-914A-728297 | Sequence 728297, |
| C 433 | 15 | 0.6 | 19 | 9 | US-11-083-784-54415 | Sequence 54415, A | C 506 | 15 | 0.6 | 21 | 6 | US-10-310-914A-920454 | Sequence 920454, |
| C 434 | 15 | 0.6 | 19 | 9 | US-11-083-784-54430 | Sequence 54430, A | C 507 | 15 | 0.6 | 21 | 7 | US-10-310-914A-1093252 | Sequence 1093252, |
| C 435 | 15 | 0.6 | 19 | 9 | US-11-083-784-54535 | Sequence 54535, A | C 508 | 15 | 0.6 | 21 | 7 | US-11-069-908-470 | Sequence 470, App |
| C 436 | 15 | 0.6 | 19 | 9 | US-11-083-784-54553 | Sequence 54553, A | C 509 | 15 | 0.6 | 22 | 6 | US-10-310-914A-74757 | Sequence 74757, A |
| C 437 | 15 | 0.6 | 19 | 9 | US-11-083-784-54620 | Sequence 54620, A | C 510 | 15 | 0.6 | 22 | 6 | US-10-310-914A-228884 | Sequence 228884, |
| C 438 | 15 | 0.6 | 19 | 9 | US-11-083-784-54636 | Sequence 54636, A | C 511 | 15 | 0.6 | 22 | 6 | US-10-310-914A-228947 | Sequence 228947, |
| C 439 | 15 | 0.6 | 19 | 9 | US-11-083-784-95887 | Sequence 95887, A | C 512 | 15 | 0.6 | 22 | 6 | US-10-310-914A-274515 | Sequence 274515, |
| C 440 | 15 | 0.6 | 19 | 9 | US-11-083-784-97865 | Sequence 97865, A | C 513 | 15 | 0.6 | 22 | 6 | US-10-310-914A-290280 | Sequence 290280, |
| C 441 | 15 | 0.6 | 19 | 9 | US-11-083-784-97866 | Sequence 97866, A | C 514 | 15 | 0.6 | 22 | 6 | US-10-310-914A-338786 | Sequence 338786, |
| C 442 | 15 | 0.6 | 19 | 9 | US-11-083-784-155013 | Sequence 155013, | C 515 | 15 | 0.6 | 22 | 6 | US-10-310-914A-418954 | Sequence 418954, |
| C 443 | 15 | 0.6 | 19 | 9 | US-11-083-784-185250 | Sequence 185250, | C 516 | 15 | 0.6 | 22 | 6 | US-10-310-914A-549093 | Sequence 549093, |
| C 444 | 15 | 0.6 | 19 | 9 | US-11-083-784-219239 | Sequence 219239, | C 517 | 15 | 0.6 | 22 | 6 | US-10-310-914A-624642 | Sequence 624642, |
| C 445 | 15 | 0.6 | 19 | 9 | US-11-083-784-226075 | Sequence 226075, | C 518 | 15 | 0.6 | 22 | 6 | US-10-310-914A-624728 | Sequence 624728, |
| C 446 | 15 | 0.6 | 19 | 9 | US-11-083-784-250899 | Sequence 250899, | C 519 | 15 | 0.6 | 22 | 6 | US-10-310-914A-627466 | Sequence 627466, |
| C 447 | 15 | 0.6 | 19 | 9 | US-11-083-784-258655 | Sequence 258655, | C 520 | 15 | 0.6 | 22 | 6 | US-10-310-914A-671362 | Sequence 671362, |
| C 448 | 15 | 0.6 | 19 | 9 | US-11-083-784-337545 | Sequence 337545, | C 521 | 15 | 0.6 | 22 | 6 | US-10-310-914A-747916 | Sequence 747916, |
| C 449 | 15 | 0.6 | 19 | 9 | US-11-083-784-415664 | Sequence 415664, | C 522 | 15 | 0.6 | 22 | 6 | US-10-310-914A-764108 | Sequence 764108, |
| C 450 | 15 | 0.6 | 19 | 9 | US-11-083-784-415763 | Sequence 415763, | C 523 | 15 | 0.6 | 22 | 6 | US-10-310-914A-781779 | Sequence 781779, |
| C 451 | 15 | 0.6 | 19 | 9 | US-11-083-784-415864 | Sequence 415864, | C 524 | 15 | 0.6 | 22 | 6 | US-10-310-914A-964205 | Sequence 964205, |
| C 452 | 15 | 0.6 | 19 | 9 | US-11-083-784-464080 | Sequence 464080, | C 525 | 15 | 0.6 | 22 | 6 | US-10-310-914A-973114 | Sequence 973114, |
| C 453 | 15 | 0.6 | 19 | 9 | US-11-083-784-464085 | Sequence 464085, | C 526 | 15 | 0.6 | 22 | 6 | US-10-310-914A-1280653 | Sequence 1280653, |
| C 454 | 15 | 0.6 | 19 | 9 | US-11-083-784-464162 | Sequence 464162, | C 527 | 15 | 0.6 | 22 | 6 | US-10-310-914A-1303544 | Sequence 1303544, |
| C 455 | 15 | 0.6 | 19 | 9 | US-11-083-784-501497 | Sequence 501497, | C 528 | 15 | 0.6 | 22 | 6 | US-10-310-914A-1326896 | Sequence 1326896, |
| C 456 | 15 | 0.6 | 19 | 9 | US-11-083-784-558987 | Sequence 558987, | C 529 | 15 | 0.6 | 22 | 6 | US-10-310-914A-1332480 | Sequence 1332480, |
| C 457 | 15 | 0.6 | 19 | 9 | US-11-083-784-560548 | Sequence 560548, | C 530 | 15 | 0.6 | 22 | 7 | US-11-069-908-3002 | Sequence 3002, App |
| C 458 | 15 | 0.6 | 19 | 9 | US-11-083-784-637525 | Sequence 637525, | C 531 | 15 | 0.6 | 22 | 7 | US-10-310-914A-71829 | Sequence 71829, A |
| C 459 | 15 | 0.6 | 19 | 9 | US-11-083-784-683504 | Sequence 683504, | C 532 | 15 | 0.6 | 22 | 6 | US-10-310-914A-74745 | Sequence 74745, A |
| C 460 | 15 | 0.6 | 19 | 9 | US-11-083-784-814960 | Sequence 814960, | C 533 | 15 | 0.6 | 23 | 6 | US-10-310-914A-138965 | Sequence 138965, |
| C 461 | 15 | 0.6 | 19 | 9 | US-11-083-784-850299 | Sequence 850299, | C 534 | 15 | 0.6 | 23 | 6 | US-10-310-914A-138965 | Sequence 138965, |

| | | | | | | | | | | | | | |
|-------|----|-----|----|---|------------------------|-------------------|-------|----|-----|----|---|------------------------|-------------------|
| 535 | 15 | 0.6 | 23 | 6 | US-10-310-914A-173221 | Sequence 173221, | c 608 | 15 | 0.6 | 25 | 7 | US-11-121-849-663251 | Sequence 663251, |
| 536 | 15 | 0.6 | 23 | 6 | US-10-310-914A-200460 | Sequence 200460, | c 609 | 15 | 0.6 | 25 | 7 | US-11-121-849-663252 | Sequence 663252, |
| 537 | 15 | 0.6 | 23 | 6 | US-10-310-914A-364066 | Sequence 364066, | c 610 | 15 | 0.6 | 25 | 7 | US-11-121-849-663253 | Sequence 663253, |
| 538 | 15 | 0.6 | 23 | 6 | US-10-310-914A-379034 | Sequence 379034, | c 611 | 15 | 0.6 | 25 | 7 | US-11-136-527-40659 | Sequence 40659, A |
| 539 | 15 | 0.6 | 23 | 6 | US-10-310-914A-379039 | Sequence 379039, | c 612 | 15 | 0.6 | 25 | 7 | US-11-136-527-101992 | Sequence 101992, |
| 540 | 15 | 0.6 | 23 | 6 | US-10-310-914A-518075 | Sequence 518075, | c 613 | 15 | 0.6 | 25 | 7 | US-11-136-527-191783 | Sequence 191783, |
| c 541 | 15 | 0.6 | 23 | 6 | US-10-310-914A-624735 | Sequence 624735, | c 614 | 15 | 0.6 | 25 | 7 | US-11-136-527-191791 | Sequence 191791, |
| 542 | 15 | 0.6 | 23 | 6 | US-10-310-914A-747112 | Sequence 747112, | c 615 | 15 | 0.6 | 25 | 7 | US-11-136-527-252605 | Sequence 252605, |
| 543 | 15 | 0.6 | 23 | 6 | US-10-310-914A-747917 | Sequence 747917, | c 616 | 15 | 0.6 | 25 | 7 | US-11-136-527-252610 | Sequence 252610, |
| 544 | 15 | 0.6 | 23 | 6 | US-10-310-914A-747920 | Sequence 747920, | c 617 | 15 | 0.6 | 25 | 7 | US-11-136-527-252611 | Sequence 252611, |
| 545 | 15 | 0.6 | 23 | 6 | US-10-310-914A-764008 | Sequence 764008, | c 618 | 15 | 0.6 | 25 | 7 | US-11-136-527-252614 | Sequence 252614, |
| c 546 | 15 | 0.6 | 23 | 6 | US-10-310-914A-936636 | Sequence 936636, | c 619 | 15 | 0.6 | 25 | 7 | US-11-136-527-306502 | Sequence 306502, |
| 547 | 15 | 0.6 | 23 | 6 | US-10-310-914A-1303555 | Sequence 1303555, | c 620 | 15 | 0.6 | 25 | 7 | US-11-136-527-313789 | Sequence 313789, |
| 548 | 15 | 0.6 | 23 | 6 | US-10-310-914A-1303587 | Sequence 1303587, | c 621 | 15 | 0.6 | 25 | 7 | US-11-136-527-313795 | Sequence 313795, |
| c 549 | 15 | 0.6 | 23 | 6 | US-10-310-914A-1312086 | Sequence 1312086, | c 622 | 15 | 0.6 | 25 | 7 | US-11-136-527-318564 | Sequence 318564, |
| 550 | 15 | 0.6 | 23 | 6 | US-10-310-914A-1322366 | Sequence 1322366, | c 623 | 15 | 0.6 | 25 | 7 | US-11-136-527-373727 | Sequence 373727, |
| c 551 | 15 | 0.6 | 23 | 6 | US-10-310-914A-1326546 | Sequence 1326546, | c 624 | 15 | 0.6 | 25 | 7 | US-10-310-914A-88191 | Sequence 88191, A |
| 552 | 15 | 0.6 | 24 | 6 | US-10-310-914A-22600 | Sequence 22600, A | c 625 | 15 | 0.6 | 26 | 6 | US-10-310-914A-122201 | Sequence 122201, |
| 553 | 15 | 0.6 | 24 | 6 | US-10-310-914A-27102 | Sequence 27102, A | c 626 | 15 | 0.6 | 26 | 6 | US-10-310-914A-209032 | Sequence 209032, |
| c 554 | 15 | 0.6 | 24 | 6 | US-10-310-914A-32997 | Sequence 32997, A | c 627 | 15 | 0.6 | 26 | 6 | US-10-310-914A-251328 | Sequence 251328, |
| c 555 | 15 | 0.6 | 24 | 6 | US-10-310-914A-209033 | Sequence 209033, | c 628 | 15 | 0.6 | 26 | 6 | US-10-310-914A-326583 | Sequence 326583, |
| 556 | 15 | 0.6 | 24 | 6 | US-10-310-914A-209037 | Sequence 209037, | c 629 | 15 | 0.6 | 26 | 6 | US-10-310-914A-980353 | Sequence 980353, |
| 557 | 15 | 0.6 | 24 | 6 | US-10-310-914A-264460 | Sequence 264460, | c 630 | 15 | 0.6 | 26 | 6 | US-10-310-914A-1303547 | Sequence 1303547, |
| c 558 | 15 | 0.6 | 24 | 6 | US-10-310-914A-274340 | Sequence 274340, | c 631 | 15 | 0.6 | 26 | 6 | US-10-453-372-13568 | Sequence 1568, Ap |
| c 559 | 15 | 0.6 | 24 | 6 | US-10-310-914A-412747 | Sequence 412747, | c 632 | 15 | 0.6 | 27 | 6 | US-10-310-914A-228868 | Sequence 228868, |
| c 560 | 15 | 0.6 | 24 | 6 | US-10-310-914A-412747 | Sequence 412747, | c 633 | 15 | 0.6 | 28 | 6 | US-10-310-914A-1303558 | Sequence 1303558, |
| 561 | 15 | 0.6 | 24 | 6 | US-10-310-914A-794919 | Sequence 794919, | c 634 | 15 | 0.6 | 29 | 6 | US-10-310-914A-378873 | Sequence 378873, |
| 562 | 15 | 0.6 | 24 | 6 | US-10-310-914A-973072 | Sequence 973072, | c 635 | 15 | 0.6 | 29 | 6 | US-10-310-914A-1185813 | Sequence 1185813, |
| c 563 | 15 | 0.6 | 24 | 6 | US-10-310-914A-1042775 | Sequence 1042775, | c 636 | 15 | 0.6 | 30 | 6 | US-10-857-780-2736 | Sequence 2736, Ap |
| c 564 | 15 | 0.6 | 24 | 6 | US-10-310-914A-1312085 | Sequence 1312085, | c 637 | 14 | 0.6 | 18 | 6 | US-10-310-914A-74726 | Sequence 74726, A |
| c 565 | 15 | 0.6 | 24 | 6 | US-10-310-914A-1312092 | Sequence 1312092, | c 638 | 14 | 0.6 | 18 | 6 | US-10-310-914A-109649 | Sequence 109649, |
| c 566 | 15 | 0.6 | 24 | 6 | US-10-310-914A-1322367 | Sequence 1322367, | c 639 | 14 | 0.6 | 18 | 6 | US-10-310-914A-127572 | Sequence 127572, |
| 567 | 15 | 0.6 | 24 | 6 | US-10-310-914A-1327599 | Sequence 1327599, | c 640 | 14 | 0.6 | 18 | 6 | US-10-310-914A-138670 | Sequence 138670, |
| c 568 | 15 | 0.6 | 24 | 7 | US-11-093-746A-8 | Sequence 8, Appli | c 641 | 14 | 0.6 | 18 | 6 | US-10-310-914A-194005 | Sequence 194005, |
| c 569 | 15 | 0.6 | 25 | 7 | US-11-121-849-5439 | Sequence 5439, Ap | c 642 | 14 | 0.6 | 18 | 6 | US-10-310-914A-251971 | Sequence 251971, |
| 570 | 15 | 0.6 | 25 | 7 | US-11-121-849-9842 | Sequence 9842, Ap | c 643 | 14 | 0.6 | 18 | 6 | US-10-310-914A-257049 | Sequence 257049, |
| 571 | 15 | 0.6 | 25 | 7 | US-11-121-849-17505 | Sequence 17505, A | c 644 | 14 | 0.6 | 18 | 6 | US-10-310-914A-274466 | Sequence 274466, |
| c 572 | 15 | 0.6 | 25 | 7 | US-11-121-849-28292 | Sequence 28292, A | c 645 | 14 | 0.6 | 18 | 6 | US-10-310-914A-285319 | Sequence 285319, |
| c 573 | 15 | 0.6 | 25 | 7 | US-11-121-849-52424 | Sequence 52424, A | c 646 | 14 | 0.6 | 18 | 6 | US-10-310-914A-311197 | Sequence 311197, |
| 574 | 15 | 0.6 | 25 | 7 | US-11-121-849-75580 | Sequence 75580, A | c 647 | 14 | 0.6 | 18 | 6 | US-10-310-914A-16544 | Sequence 16544, |
| c 575 | 15 | 0.6 | 25 | 7 | US-11-121-849-79904 | Sequence 79904, A | c 648 | 14 | 0.6 | 18 | 6 | US-10-310-914A-351662 | Sequence 351662, |
| c 576 | 15 | 0.6 | 25 | 7 | US-11-121-849-81762 | Sequence 81762, A | c 649 | 14 | 0.6 | 18 | 6 | US-10-310-914A-408479 | Sequence 408479, |
| c 577 | 15 | 0.6 | 25 | 7 | US-11-121-849-124143 | Sequence 124143, | c 650 | 14 | 0.6 | 18 | 6 | US-10-310-914A-443242 | Sequence 443242, |
| 578 | 15 | 0.6 | 25 | 7 | US-11-121-849-136586 | Sequence 126586, | c 651 | 14 | 0.6 | 18 | 6 | US-10-310-914A-473255 | Sequence 473255, |
| 579 | 15 | 0.6 | 25 | 7 | US-11-121-849-136708 | Sequence 126708, | c 652 | 14 | 0.6 | 18 | 6 | US-10-310-914A-532688 | Sequence 532688, |
| 580 | 15 | 0.6 | 25 | 7 | US-11-121-849-137840 | Sequence 127840, | c 653 | 14 | 0.6 | 18 | 6 | US-10-310-914A-524616 | Sequence 524616, |
| 581 | 15 | 0.6 | 25 | 7 | US-11-121-849-17264 | Sequence 17264, | c 654 | 14 | 0.6 | 18 | 6 | US-10-310-914A-557775 | Sequence 557775, |
| c 582 | 15 | 0.6 | 25 | 7 | US-11-121-849-196159 | Sequence 196159, | c 655 | 14 | 0.6 | 18 | 6 | US-10-310-914A-559934 | Sequence 559934, |
| c 583 | 15 | 0.6 | 25 | 7 | US-11-121-849-210531 | Sequence 210531, | c 656 | 14 | 0.6 | 18 | 6 | US-10-310-914A-580358 | Sequence 580358, |
| c 584 | 15 | 0.6 | 25 | 7 | US-11-121-849-217207 | Sequence 217207, | c 657 | 14 | 0.6 | 18 | 6 | US-10-310-914A-590760 | Sequence 590760, |
| c 585 | 15 | 0.6 | 25 | 7 | US-11-121-849-263591 | Sequence 263591, | c 658 | 14 | 0.6 | 18 | 6 | US-10-310-914A-759737 | Sequence 759737, |
| c 586 | 15 | 0.6 | 25 | 7 | US-11-121-849-271582 | Sequence 271582, | c 659 | 14 | 0.6 | 18 | 6 | US-10-310-914A-808236 | Sequence 808236, |
| 587 | 15 | 0.6 | 25 | 7 | US-11-121-849-335648 | Sequence 315648, | c 660 | 14 | 0.6 | 18 | 6 | US-10-310-914A-822194 | Sequence 822194, |
| 588 | 15 | 0.6 | 25 | 7 | US-11-121-849-363520 | Sequence 363520, | c 661 | 14 | 0.6 | 18 | 6 | US-10-310-914A-830145 | Sequence 830145, |
| 589 | 15 | 0.6 | 25 | 7 | US-11-121-849-373008 | Sequence 373008, | c 662 | 14 | 0.6 | 18 | 6 | US-10-310-914A-834773 | Sequence 834773, |
| 590 | 15 | 0.6 | 25 | 7 | US-11-121-849-379688 | Sequence 379688, | c 663 | 14 | 0.6 | 18 | 6 | US-10-310-914A-922698 | Sequence 922698, |
| c 591 | 15 | 0.6 | 25 | 7 | US-11-121-849-380645 | Sequence 380646, | c 664 | 14 | 0.6 | 18 | 6 | US-10-310-914A-958139 | Sequence 958139, |
| c 592 | 15 | 0.6 | 25 | 7 | US-11-121-849-410275 | Sequence 410275, | c 665 | 14 | 0.6 | 18 | 6 | US-10-310-914A-983952 | Sequence 983952, |
| c 593 | 15 | 0.6 | 25 | 7 | US-11-121-849-410276 | Sequence 410276, | c 666 | 14 | 0.6 | 18 | 6 | US-10-310-914A-991369 | Sequence 991369, |
| c 594 | 15 | 0.6 | 25 | 7 | US-11-121-849-410277 | Sequence 410277, | c 667 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1039223 | Sequence 1039223, |
| c 595 | 15 | 0.6 | 25 | 7 | US-11-121-849-410278 | Sequence 410278, | c 668 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1114176 | Sequence 1114176, |
| c 596 | 15 | 0.6 | 25 | 7 | US-11-121-849-419337 | Sequence 419337, | c 669 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1114557 | Sequence 1114557, |
| 597 | 15 | 0.6 | 25 | 7 | US-11-121-849-487704 | Sequence 487704, | c 670 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1175556 | Sequence 1175556, |
| c 598 | 15 | 0.6 | 25 | 7 | US-11-121-849-505867 | Sequence 505867, | c 671 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1184802 | Sequence 1184802, |
| 599 | 15 | 0.6 | 25 | 7 | US-11-121-849-525029 | Sequence 525029, | c 672 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1294189 | Sequence 1294189, |
| 600 | 15 | 0.6 | 25 | 7 | US-11-121-849-525030 | Sequence 525030, | c 673 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1322791 | Sequence 1322791, |
| 601 | 15 | 0.6 | 25 | 7 | US-11-121-849-541728 | Sequence 541728, | c 674 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1330471 | Sequence 1330471, |
| c 602 | 15 | 0.6 | 25 | 7 | US-11-121-849-548005 | Sequence 548005, | c 675 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1339166 | Sequence 1339166, |
| 603 | 15 | 0.6 | 25 | 7 | US-11-121-849-556938 | Sequence 556938, | c 676 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1367161 | Sequence 1367161, |
| 604 | 15 | 0.6 | 25 | 7 | US-11-121-849-573613 | Sequence 573613, | c 677 | 14 | 0.6 | 18 | 6 | US-10-310-914A-1376270 | Sequence 1376270, |
| c 605 | 15 | 0.6 | 25 | 7 | US-11-121-849-662816 | Sequence 662816, | c 678 | 14 | 0.6 | 19 | 6 | US-10-310-914A-53711 | Sequence 53711, A |
| c 606 | 15 | 0.6 | 25 | 7 | US-11-121-849-662817 | Sequence 662817, | c 679 | 14 | 0.6 | 19 | 6 | US-10-310-914A-174645 | Sequence 174645, |
| c 607 | 15 | 0.6 | 25 | 7 | US-11-121-849-662818 | Sequence 662818, | c 680 | 14 | 0.6 | 19 | 6 | US-10-310-914A-190213 | Sequence 190213, |

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| 681 | 14 | 0.6 | 19 | 6 | US-10-310-914A-196226 | Sequence 196226, | 754 | 14 | 0.6 | 19 | 8 | US-11-101-244-53907 | Sequence 53907, A |
| 682 | 14 | 0.6 | 19 | 6 | US-10-310-914A-198758 | Sequence 198758, | c 755 | 14 | 0.6 | 19 | 8 | US-11-101-244-54443 | Sequence 54443, A |
| 683 | 14 | 0.6 | 19 | 6 | US-10-310-914A-213205 | Sequence 213205, | c 756 | 14 | 0.6 | 19 | 8 | US-11-101-244-54570 | Sequence 54570, A |
| 684 | 14 | 0.6 | 19 | 6 | US-10-310-914A-234492 | Sequence 234492, | c 757 | 14 | 0.6 | 19 | 8 | US-11-101-244-54651 | Sequence 54651, A |
| c 685 | 14 | 0.6 | 19 | 6 | US-10-310-914A-279292 | Sequence 279292, | 758 | 14 | 0.6 | 19 | 8 | US-11-101-244-58103 | Sequence 58103, A |
| c 686 | 14 | 0.6 | 19 | 6 | US-10-310-914A-279293 | Sequence 279293, | 759 | 14 | 0.6 | 19 | 8 | US-11-101-244-82642 | Sequence 82642, A |
| c 687 | 14 | 0.6 | 19 | 6 | US-10-310-914A-279300 | Sequence 279300, | 760 | 14 | 0.6 | 19 | 8 | US-11-101-244-82644 | Sequence 82644, A |
| c 688 | 14 | 0.6 | 19 | 6 | US-10-310-914A-279301 | Sequence 279301, | 761 | 14 | 0.6 | 19 | 8 | US-11-101-244-82688 | Sequence 82688, A |
| 689 | 14 | 0.6 | 19 | 6 | US-10-310-914A-325922 | Sequence 325922, | 762 | 14 | 0.6 | 19 | 8 | US-11-101-244-82690 | Sequence 82690, A |
| 690 | 14 | 0.6 | 19 | 6 | US-10-310-914A-329930 | Sequence 329930, | c 763 | 14 | 0.6 | 19 | 8 | US-11-101-244-92934 | Sequence 92934, A |
| 691 | 14 | 0.6 | 19 | 6 | US-10-310-914A-363528 | Sequence 363528, | 764 | 14 | 0.6 | 19 | 8 | US-11-101-244-96784 | Sequence 96784, A |
| 692 | 14 | 0.6 | 19 | 6 | US-10-310-914A-364131 | Sequence 364131, | c 765 | 14 | 0.6 | 19 | 8 | US-11-101-244-97584 | Sequence 97584, A |
| 693 | 14 | 0.6 | 19 | 6 | US-10-310-914A-366066 | Sequence 366066, | 766 | 14 | 0.6 | 19 | 8 | US-11-101-244-100202 | Sequence 100202, |
| 694 | 14 | 0.6 | 19 | 6 | US-10-310-914A-366112 | Sequence 366112, | 767 | 14 | 0.6 | 19 | 8 | US-11-101-244-100243 | Sequence 100243, |
| c 695 | 14 | 0.6 | 19 | 6 | US-10-310-914A-388597 | Sequence 388597, | 768 | 14 | 0.6 | 19 | 8 | US-11-101-244-100862 | Sequence 100862, |
| 696 | 14 | 0.6 | 19 | 6 | US-10-310-914A-389408 | Sequence 389408, | c 769 | 14 | 0.6 | 19 | 8 | US-11-101-244-133802 | Sequence 133802, |
| 697 | 14 | 0.6 | 19 | 6 | US-10-310-914A-467312 | Sequence 467312, | c 770 | 14 | 0.6 | 19 | 8 | US-11-101-244-154797 | Sequence 154797, |
| 698 | 14 | 0.6 | 19 | 6 | US-10-310-914A-473302 | Sequence 473302, | c 771 | 14 | 0.6 | 19 | 8 | US-11-101-244-154938 | Sequence 154938, |
| 699 | 14 | 0.6 | 19 | 6 | US-10-310-914A-498124 | Sequence 498124, | c 772 | 14 | 0.6 | 19 | 8 | US-11-101-244-160338 | Sequence 160338, |
| 700 | 14 | 0.6 | 19 | 6 | US-10-310-914A-502591 | Sequence 502591, | c 773 | 14 | 0.6 | 19 | 8 | US-11-101-244-169495 | Sequence 169495, |
| c 701 | 14 | 0.6 | 19 | 6 | US-10-310-914A-521655 | Sequence 521655, | c 774 | 14 | 0.6 | 19 | 8 | US-11-101-244-181293 | Sequence 181293, |
| c 702 | 14 | 0.6 | 19 | 6 | US-10-310-914A-521656 | Sequence 521656, | c 775 | 14 | 0.6 | 19 | 8 | US-11-101-244-185290 | Sequence 185290, |
| 703 | 14 | 0.6 | 19 | 6 | US-10-310-914A-581341 | Sequence 581341, | c 776 | 14 | 0.6 | 19 | 8 | US-11-101-244-200937 | Sequence 200937, |
| c 704 | 14 | 0.6 | 19 | 6 | US-10-310-914A-581341 | Sequence 581341, | c 777 | 14 | 0.6 | 19 | 8 | US-11-101-244-201042 | Sequence 201042, |
| 705 | 14 | 0.6 | 19 | 6 | US-10-310-914A-613616 | Sequence 613616, | c 778 | 14 | 0.6 | 19 | 8 | US-11-101-244-201142 | Sequence 201142, |
| 706 | 14 | 0.6 | 19 | 6 | US-10-310-914A-666210 | Sequence 666210, | c 779 | 14 | 0.6 | 19 | 8 | US-11-101-244-201237 | Sequence 201237, |
| 707 | 14 | 0.6 | 19 | 6 | US-10-310-914A-667870 | Sequence 667870, | c 780 | 14 | 0.6 | 19 | 8 | US-11-101-244-201302 | Sequence 201302, |
| 708 | 14 | 0.6 | 19 | 6 | US-10-310-914A-677672 | Sequence 677672, | c 781 | 14 | 0.6 | 19 | 8 | US-11-101-244-208738 | Sequence 208738, |
| c 709 | 14 | 0.6 | 19 | 6 | US-10-310-914A-680324 | Sequence 680324, | c 782 | 14 | 0.6 | 19 | 8 | US-11-101-244-225719 | Sequence 225719, |
| 710 | 14 | 0.6 | 19 | 6 | US-10-310-914A-688316 | Sequence 688316, | c 783 | 14 | 0.6 | 19 | 8 | US-11-101-244-233722 | Sequence 233722, |
| c 711 | 14 | 0.6 | 19 | 6 | US-10-310-914A-690826 | Sequence 690826, | c 784 | 14 | 0.6 | 19 | 8 | US-11-101-244-239539 | Sequence 239539, |
| 712 | 14 | 0.6 | 19 | 6 | US-10-310-914A-722332 | Sequence 722332, | c 785 | 14 | 0.6 | 19 | 8 | US-11-101-244-239619 | Sequence 239619, |
| c 713 | 14 | 0.6 | 19 | 6 | US-10-310-914A-750111 | Sequence 750111, | 786 | 14 | 0.6 | 19 | 8 | US-11-101-244-240976 | Sequence 240976, |
| c 714 | 14 | 0.6 | 19 | 6 | US-10-310-914A-827774 | Sequence 827774, | 787 | 14 | 0.6 | 19 | 8 | US-11-101-244-276894 | Sequence 276894, |
| 715 | 14 | 0.6 | 19 | 6 | US-10-310-914A-857830 | Sequence 857830, | 788 | 14 | 0.6 | 19 | 8 | US-11-101-244-279114 | Sequence 279114, |
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| c 717 | 14 | 0.6 | 19 | 6 | US-10-310-914A-891335 | Sequence 891335, | 790 | 14 | 0.6 | 19 | 8 | US-11-101-244-335591 | Sequence 335591, |
| 718 | 14 | 0.6 | 19 | 6 | US-10-310-914A-922764 | Sequence 922764, | c 791 | 14 | 0.6 | 19 | 8 | US-11-101-244-346494 | Sequence 346494, |
| c 719 | 14 | 0.6 | 19 | 6 | US-10-310-914A-933558 | Sequence 933558, | 792 | 14 | 0.6 | 19 | 8 | US-11-101-244-349554 | Sequence 349554, |
| 720 | 14 | 0.6 | 19 | 6 | US-10-310-914A-958420 | Sequence 958420, | 793 | 14 | 0.6 | 19 | 8 | US-11-101-244-363335 | Sequence 363335, |
| c 721 | 14 | 0.6 | 19 | 6 | US-10-310-914A-962165 | Sequence 962165, | c 794 | 14 | 0.6 | 19 | 8 | US-11-101-244-364737 | Sequence 364737, |
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| c 723 | 14 | 0.6 | 19 | 6 | US-10-310-914A-1016090 | Sequence 1016090, | c 796 | 14 | 0.6 | 19 | 8 | US-11-101-244-373070 | Sequence 373070, |
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| c 725 | 14 | 0.6 | 19 | 6 | US-10-310-914A-1046691 | Sequence 1046691, | 798 | 14 | 0.6 | 19 | 8 | US-11-101-244-403123 | Sequence 403123, |
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| c 728 | 14 | 0.6 | 19 | 6 | US-10-310-914A-1089846 | Sequence 1089846, | c 801 | 14 | 0.6 | 19 | 8 | US-11-101-244-406322 | Sequence 406322, |
| c 729 | 14 | 0.6 | 19 | 6 | US-10-310-914A-1147459 | Sequence 1147459, | c 802 | 14 | 0.6 | 19 | 8 | US-11-101-244-406443 | Sequence 406443, |
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| c 740 | 14 | 0.6 | 19 | 6 | US-10-310-914A-1351604 | Sequence 1351604, | c 813 | 14 | 0.6 | 19 | 8 | US-11-101-244-430794 | Sequence 430794, |
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| c 743 | 14 | 0.6 | 19 | 8 | US-11-101-244-7014 | Sequence 7014, | c 816 | 14 | 0.6 | 19 | 8 | US-11-101-244-463701 | Sequence 463701, |
| c 744 | 14 | 0.6 | 19 | 8 | US-11-101-244-7098 | Sequence 7098, | c 817 | 14 | 0.6 | 19 | 8 | US-11-101-244-467305 | Sequence 467305, |
| c 745 | 14 | 0.6 | 19 | 8 | US-11-101-244-7178 | Sequence 7178, | c 818 | 14 | 0.6 | 19 | 8 | US-11-101-244-467224 | Sequence 467224, |
| c 746 | 14 | 0.6 | 19 | 8 | US-11-101-244-7256 | Sequence 7256, | c 819 | 14 | 0.6 | 19 | 8 | US-11-101-244-506226 | Sequence 506226, |
| c 747 | 14 | 0.6 | 19 | 8 | US-11-101-244-7330 | Sequence 7330, | c 820 | 14 | 0.6 | 19 | 8 | US-11-101-244-506326 | Sequence 506326, |
| c 748 | 14 | 0.6 | 19 | 8 | US-11-101-244-7400 | Sequence 7400, | c 821 | 14 | 0.6 | 19 | 8 | US-11-101-244-506896 | Sequence 506896, |
| c 749 | 14 | 0.6 | 19 | 8 | US-11-101-244-7467 | Sequence 7467, | c 822 | 14 | 0.6 | 19 | 8 | US-11-101-244-518571 | Sequence 518571, |
| c 750 | 14 | 0.6 | 19 | 8 | US-11-101-244-7538 | Sequence 7538, | c 823 | 14 | 0.6 | 19 | 8 | US-11-101-244-544748 | Sequence 544748, |
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| c 753 | 14 | 0.6 | 19 | 8 | US-11-101-244-27704 | Sequence 27704, | c 826 | 14 | 0.6 | 19 | 8 | US-11-101-244-558922 | Sequence 558922, |
| | | | 19 | 8 | US-11-101-244-45823 | Sequence 45823, | | | | 19 | 8 | US-11-101-244-566351 | Sequence 566351, |

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| 828 | 14 | 0.6 | 19 | 8 | US-11-101-244-578594 | Sequence 578594, | 901 | 14 | 0.6 | 19 | 8 | US-11-101-244-1168353 | Sequence 1168353, |
| c 829 | 14 | 0.6 | 19 | 8 | US-11-101-244-592225 | Sequence 592225 | 902 | 14 | 0.6 | 19 | 8 | US-11-101-244-1195260 | Sequence 1195260, |
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| c 834 | 14 | 0.6 | 19 | 8 | US-11-101-244-625878 | Sequence 625878, | c 907 | 14 | 0.6 | 19 | 8 | US-11-101-244-1207658 | Sequence 1207658, |
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| c 838 | 14 | 0.6 | 19 | 8 | US-11-101-244-667708 | Sequence 667708, | c 911 | 14 | 0.6 | 19 | 8 | US-11-101-244-1218008 | Sequence 1218008, |
| c 839 | 14 | 0.6 | 19 | 8 | US-11-101-244-680267 | Sequence 680267, | c 912 | 14 | 0.6 | 19 | 8 | US-11-101-244-1220037 | Sequence 1220037, |
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| c 841 | 14 | 0.6 | 19 | 8 | US-11-101-244-691661 | Sequence 691661, | 914 | 14 | 0.6 | 19 | 8 | US-11-101-244-1251626 | Sequence 1251626, |
| c 842 | 14 | 0.6 | 19 | 8 | US-11-101-244-691758 | Sequence 691758, | c 915 | 14 | 0.6 | 19 | 8 | US-11-101-244-1251970 | Sequence 1251970, |
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| c 848 | 14 | 0.6 | 19 | 8 | US-11-101-244-721269 | Sequence 721269, | c 921 | 14 | 0.6 | 19 | 8 | US-11-101-244-1289325 | Sequence 1289325, |
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| c 851 | 14 | 0.6 | 19 | 8 | US-11-101-244-758314 | Sequence 758314, | 924 | 14 | 0.6 | 19 | 8 | US-11-101-244-1311431 | Sequence 1311431, |
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| c 858 | 14 | 0.6 | 19 | 8 | US-11-101-244-840982 | Sequence 840982, | c 931 | 14 | 0.6 | 19 | 8 | US-11-101-244-1318988 | Sequence 1318988, |
| c 859 | 14 | 0.6 | 19 | 8 | US-11-101-244-842266 | Sequence 842266, | 932 | 14 | 0.6 | 19 | 8 | US-11-101-244-1326229 | Sequence 1326229, |
| c 860 | 14 | 0.6 | 19 | 8 | US-11-101-244-858424 | Sequence 858424, | 933 | 14 | 0.6 | 19 | 8 | US-11-101-244-1326897 | Sequence 1326897, |
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| c 862 | 14 | 0.6 | 19 | 8 | US-11-101-244-871083 | Sequence 871083, | 935 | 14 | 0.6 | 19 | 8 | US-11-101-244-1339823 | Sequence 1339823, |
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| c 864 | 14 | 0.6 | 19 | 8 | US-11-101-244-875916 | Sequence 875916, | c 937 | 14 | 0.6 | 19 | 8 | US-11-101-244-1361298 | Sequence 1361298, |
| c 865 | 14 | 0.6 | 19 | 8 | US-11-101-244-878909 | Sequence 878909, | c 938 | 14 | 0.6 | 19 | 8 | US-11-101-244-1361395 | Sequence 1361395, |
| c 866 | 14 | 0.6 | 19 | 8 | US-11-101-244-881532 | Sequence 881532, | 939 | 14 | 0.6 | 19 | 8 | US-11-101-244-1377448 | Sequence 1377448, |
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| c 868 | 14 | 0.6 | 19 | 8 | US-11-101-244-907056 | Sequence 907056, | 941 | 14 | 0.6 | 19 | 8 | US-11-101-244-1386268 | Sequence 1386268, |
| c 869 | 14 | 0.6 | 19 | 8 | US-11-101-244-930082 | Sequence 930082, | 942 | 14 | 0.6 | 19 | 8 | US-11-101-244-1386370 | Sequence 1386370, |
| c 870 | 14 | 0.6 | 19 | 8 | US-11-101-244-947423 | Sequence 947423, | 943 | 14 | 0.6 | 19 | 8 | US-11-101-244-1386470 | Sequence 1386470, |
| c 871 | 14 | 0.6 | 19 | 8 | US-11-101-244-967431 | Sequence 967431, | c 944 | 14 | 0.6 | 19 | 8 | US-11-101-244-1387041 | Sequence 1387041, |
| c 872 | 14 | 0.6 | 19 | 8 | US-11-101-244-969566 | Sequence 969566, | c 945 | 14 | 0.6 | 19 | 8 | US-11-101-244-1387068 | Sequence 1387068, |
| c 873 | 14 | 0.6 | 19 | 8 | US-11-101-244-989179 | Sequence 989179, | 946 | 14 | 0.6 | 19 | 8 | US-11-101-244-1390116 | Sequence 1390116, |
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| c 881 | 14 | 0.6 | 19 | 8 | US-11-101-244-1037858 | Sequence 1037858, | c 954 | 14 | 0.6 | 19 | 8 | US-11-101-244-1422900 | Sequence 1422900, |
| c 882 | 14 | 0.6 | 19 | 8 | US-11-101-244-1037877 | Sequence 1037877, | c 955 | 14 | 0.6 | 19 | 8 | US-11-101-244-1426453 | Sequence 1426453, |
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| c 884 | 14 | 0.6 | 19 | 8 | US-11-101-244-1077059 | Sequence 1077059, | c 957 | 14 | 0.6 | 19 | 8 | US-11-101-244-1429300 | Sequence 1429300, |
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| c 892 | 14 | 0.6 | 19 | 8 | US-11-101-244-1115801 | Sequence 1115801, | c 965 | 14 | 0.6 | 19 | 8 | US-11-101-244-1502935 | Sequence 1502935, |
| c 893 | 14 | 0.6 | 19 | 8 | US-11-101-244-1115802 | Sequence 1115802, | c 966 | 14 | 0.6 | 19 | 8 | US-11-101-244-1509117 | Sequence 1509117, |
| c 894 | 14 | 0.6 | 19 | 8 | US-11-101-244-1128095 | Sequence 1128095, | c 967 | 14 | 0.6 | 19 | 8 | US-11-101-244-1518888 | Sequence 1518888, |
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| c 898 | 14 | 0.6 | 19 | 8 | US-11-101-244-1153883 | Sequence 1153883, | c 971 | 14 | 0.6 | 19 | 8 | US-11-101-244-1570255 | Sequence 1570255, |
| c 899 | 14 | 0.6 | 19 | 8 | US-11-101-244-1154344 | Sequence 1154344, | 972 | 14 | 0.6 | 19 | 9 | US-11-083-784-1870 | Sequence 1870, Ap |

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c 976      14      0.6      19      9      US-11-083-784-7256      Sequence 7256, Ap
c 977      14      0.6      19      9      US-11-083-784-7330      Sequence 7330, Ap
c 978      14      0.6      19      9      US-11-083-784-7400      Sequence 7400, Ap
c 979      14      0.6      19      9      US-11-083-784-7467      Sequence 7467, Ap
c 980      14      0.6      19      9      US-11-083-784-7538      Sequence 7538, Ap
c 981      14      0.6      19      9      US-11-083-784-7568      Sequence 7568, Ap
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c 983      14      0.6      19      9      US-11-083-784-27704      Sequence 27704, A
c 984      14      0.6      19      9      US-11-083-784-45823      Sequence 45823, A
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c 986      14      0.6      19      9      US-11-083-784-54443      Sequence 54443, A
c 987      14      0.6      19      9      US-11-083-784-54570      Sequence 54570, A
c 988      14      0.6      19      9      US-11-083-784-54651      Sequence 54651, A
c 989      14      0.6      19      9      US-11-083-784-58103      Sequence 58103, A
c 990      14      0.6      19      9      US-11-083-784-82642      Sequence 82642, A
c 991      14      0.6      19      9      US-11-083-784-82644      Sequence 82644, A
c 992      14      0.6      19      9      US-11-083-784-82688      Sequence 82688, A
c 993      14      0.6      19      9      US-11-083-784-82690      Sequence 82690, A
c 994      14      0.6      19      9      US-11-083-784-92934      Sequence 92934, A
c 995      14      0.6      19      9      US-11-083-784-96784      Sequence 96784, A
c 996      14      0.6      19      9      US-11-083-784-97584      Sequence 97584, A
c 997      14      0.6      19      9      US-11-083-784-100202      Sequence 100202,
c 998      14      0.6      19      9      US-11-083-784-100243      Sequence 100243,
c 999      14      0.6      19      9      US-11-083-784-100862      Sequence 100862,
1000     14      0.6      19      9      US-11-083-784-1509117      Sequence 1509117,
```

ALIGNMENTS

```
RESULT 1
US-10-310-914A-313804/c
; Sequence 313804, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313804
; LENGTH: 28
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313804
```

```
Query Match      1.2%; Score 28; DB 6; Length 28;
Best Local Similarity 100.0%; Pred.No. 0.00012;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2295 GAGGAATATAAAGGGAAGTGAAGAAAA 2322
Db      28 GAGGAATATAAAGGGAAGTGAAGAAAA 1
```

```
RESULT 2
US-10-310-914A-313800/c
; Sequence 313800, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
```

```
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313800
; LENGTH: 27
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313800
```

```
Query Match      1.2%; Score 27; DB 6; Length 27;
Best Local Similarity 100.0%; Pred.No. 0.00042;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1933 AAAAAGCCCCCTAAGTCAACGCTCCA 1959
Db      27 AAAAAGCCCCCTAAGTCAACGCTCCA 1
```

RESULT 3

```
US-10-310-914A-313768/c
; Sequence 313768, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313768
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313768
```

```
Query Match      1.1%; Score 26; DB 6; Length 26;
Best Local Similarity 100.0%; Pred.No. 0.0014;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2256 GGCAGGTTCCCTCTCGTGCTGCTG 2281
Db      26 GGCAGGTTCCCTCTCGTGCTGCTG 1
```

RESULT 4

```
US-10-310-914A-313797/c
; Sequence 313797, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313797
; LENGTH: 27
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313797
```

```
Query Match      1.1%; Score 26; DB 6; Length 27;
Best Local Similarity 100.0%; Pred.No. 0.0014;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2156 GTGAGAAAAACACAGCCCTCTTCA 2181
```

Db 26 GTGAGAAAACAGCCCTCCTTTCA 1

RESULT 5

US-10-310-914A-313755/c

; Sequence 313755, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; PRIOR FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 313755

; LENGTH: 25

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-313755

Query Match 1.1%; Score 25; DB 6; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.005;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GGGGCTGGAGGGGGCAAGCGGGTT 27

|||||

Db 25 GGGGCTGGAGGGGGCAAGCGGGTT 1

RESULT 6

US-10-310-914A-313776/c

; Sequence 313776, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; PRIOR FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 313776

; LENGTH: 25

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-313776

Query Match 1.1%; Score 25; DB 6; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.005;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2212 TCTGGGTTAGGGTTGGGGTCCG 2236

|||||

Db 25 TCTGGGTTAGGGTTGGGGTCCG 1

RESULT 7

US-10-310-914A-313796/c

; Sequence 313796, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 313796

; LENGTH: 25

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-313796

Query Match 1.1%; Score 25; DB 6; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.005;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1860 GCGCGTAGATTTATTAATACCAAGA 1884

|||||

Db 25 GCGCGTAGATTTATTAATACCAAGA 1

RESULT 8

US-11-121-849-135610

; Sequence 135610, Application US/11121849

; Publication No. US20050272080A1

; GENERAL INFORMATION:

; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded

; TITLE OF INVENTION: Microarrays

; FILE REFERENCE: 3684.1

; CURRENT APPLICATION NUMBER: US/11/121,849

; CURRENT FILING DATE: 2005-05-03

; PRIOR APPLICATION NUMBER: 60/567,949

; PRIOR FILING DATE: 2004-05-03

; NUMBER OF SEQ ID NOS: 673904

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

; SEQ ID NO 135610

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Homo sapien

US-11-121-849-135610

Query Match 1.1%; Score 25; DB 7; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.005;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1998 TTCTTCCTCCTTGGGTGGAGGAGA 2022

|||||

Db 1 TTCTTCCTCCTTGGGTGGAGGAGA 25

RESULT 9

US-11-121-849-135611

; Sequence 135611, Application US/11121849

; Publication No. US20050272080A1

; GENERAL INFORMATION:

; APPLICANT: John Palma

; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded

; TITLE OF INVENTION: Microarrays

; FILE REFERENCE: 3684.1

; CURRENT APPLICATION NUMBER: US/11/121,849

; CURRENT FILING DATE: 2005-05-03

; PRIOR APPLICATION NUMBER: 60/567,949

; PRIOR FILING DATE: 2004-05-03

; NUMBER OF SEQ ID NOS: 673904

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

; SEQ ID NO 135611

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Homo sapien

US-11-121-849-135611

Query Match 1.1%; Score 25; DB 7; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.005;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2024 CAGGGTGCTCTTATCTCTCTCTAG 2048

```
Db      1 CAGGGTGCTCTTATCTCTCTAG 25
|||||
RESULT 10
US-11-121-849-135612
; Sequence 135612, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135612
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135612

Query Match      1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2035 TTATCTCTCTTAGCGGTGCTC 2059
|||||
Db      1 TTATCTCTCTTAGCGGTGCTC 25
|||||

RESULT 11
US-11-121-849-135613
; Sequence 135613, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135613
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135613

Query Match      1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2050 GGTCTGCTCTCTGTACCTCTTGGG 2074
|||||
Db      1 GGTCTGCTCTCTGTACCTCTTGGG 25
|||||

RESULT 12
US-11-121-849-135614
; Sequence 135614, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
```

```
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135614
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135614

Query Match      1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2075 GGGATCGGCAACACAGGCTACCCCTG 2099
|||||
Db      1 GGGATCGGCAACACAGGCTACCCCTG 25
|||||

RESULT 13
US-11-121-849-135615
; Sequence 135615, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135615
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135615

Query Match      1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2085 AACAGGCTACCCCTGAGGTCCCATG 2109
|||||
Db      1 AACAGGCTACCCCTGAGGTCCCATG 25
|||||

RESULT 14
US-11-121-849-135616
; Sequence 135616, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135616
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135616

Query Match      1.1%; Score 25; DB 7; Length 25;
```

```
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2098 TGAGGTCCCATGTGCCATGAGTGTG 2122
Db 1 TGAGGTCCCATGTGCCATGAGTGTG 25

RESULT 15
US-11-121-849-135617
; Sequence 135617, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135617
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135617

Query Match 1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2109 GTGCCATGAGTGTGCACACATGCA 2133
Db 1 GTGCCATGAGTGTGCACACATGCA 25

RESULT 16
US-11-121-849-135618
; Sequence 135618, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135618
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135618

Query Match 1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2122 GCACACATGCATGTGCTGTGTA 2146
Db 1 GCACACATGCATGTGCTGTGTA 25

RESULT 17
US-11-121-849-135619
; Sequence 135619, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
```

```
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135619
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135619

Query Match 1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2160 GAAAAACACAGCCCTCTTCAGAA 2184
Db 1 GAAAAACACAGCCCTCTTCAGAA 25

RESULT 18
US-11-121-849-135620
; Sequence 135620, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 135620
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-135620

Query Match 1.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.005;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2250 CAGGAAGCAGGTTCCCTCTCTGGT 2274
Db 1 CAGGAAGCAGGTTCCCTCTCTGGT 25

RESULT 19
US-10-310-914A-313763/c
; Sequence 313763, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313763
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
```

US-10-310-914A-313763

Query Match 1.0%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GGGGCTGGAGGGGCGACGCGGT 26
|||||
Db 24 GGGGCTGGAGGGGCGACGCGGT 1

RESULT 20

US-10-310-914A-313802/c
; Sequence 313802, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313802
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313802

Query Match 1.0%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2139 TCTGTGTATGTGTGAATGTGAGAA 2162
|||||
Db 24 TCTGTGTATGTGTGAATGTGAGAA 1

Search completed: January 13, 2006, 15:02:49
Job time : 426 secs

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OM nucleic - nucleic search, using sw model

Run on: January 13, 2006, 07:31:21 ; Search time 9231 Seconds
(without alignments)
11789.270 Million cell updates/sec

Title: US-09-743-825-1

Perfect score: 2326

Sequence: 1 ccgggctggaggggggcaaa.....agggagtggagaaaaaaa 2326

Scoring table: OLIGO_NUC

Gapop_60.0 , Gapext 60.0

Searched: 41078325 seqs, 23393541228 residues

Word size : 0

Total number of hits satisfying chosen parameters: 52094

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Listing first 1000 summaries

Database :

EST:*

1: gb_est1:*

2: gb_est2:*

3: gb_est3:*

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5: gb_est4:*

6: gb_est5:*

7: gb_est6:*

8: gb_est7:*

9: gb_gsa1:*

10: gb_gsa2:*

11: gb_gsa3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| C 1 | 17 | 0.7 | 22 | 10 | CZ442773 |
| C 2 | 15 | 0.6 | 22 | 10 | AG201964 |
| C 3 | 15 | 0.6 | 25 | 1 | AI000095 |
| C 4 | 15 | 0.6 | 27 | 9 | AZ582229 |
| C 5 | 15 | 0.6 | 28 | 1 | AW249512 |
| C 6 | 15 | 0.6 | 30 | 10 | CZ909748 |
| C 7 | 14 | 0.6 | 20 | 9 | AZ808800 |
| C 8 | 14 | 0.6 | 23 | 9 | AZ345454 |
| C 9 | 13 | 0.6 | 19 | 1 | AJ647608 |
| C 10 | 13 | 0.6 | 20 | 10 | AJ588628 |
| C 11 | 13 | 0.6 | 20 | 10 | AJ599954 |
| C 12 | 13 | 0.6 | 21 | 1 | AJ649792 |
| C 13 | 13 | 0.6 | 21 | 9 | AZ834857 |
| C 14 | 13 | 0.6 | 24 | 9 | AZ363658 |
| C 15 | 13 | 0.6 | 24 | 9 | AZ601725 |
| C 16 | 13 | 0.6 | 25 | 1 | AI745099 |
| C 17 | 13 | 0.6 | 25 | 11 | TA225C03Q |
| C 18 | 13 | 0.6 | 26 | 9 | AZ386258 |
| C 19 | 13 | 0.6 | 26 | 9 | AZ831059 |
| C 20 | 13 | 0.6 | 26 | 10 | CZ910031 |
| C 21 | 13 | 0.6 | 28 | 1 | AI224617 |
| C 22 | 13 | 0.6 | 28 | 1 | AI416220 |

| | | | | |
|----------|-------------|----|----|-----------|
| AL037919 | DKF2P564M | 28 | 1 | AL037919 |
| AZ582677 | IM0376P12 | 28 | 9 | AZ582677 |
| AQ254876 | BP(2)2583 | 29 | 9 | AQ254876 |
| CZ487436 | f04856-5p | 30 | 10 | CZ487436 |
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| AJ696991 | AJ696991 | 19 | 1 | AJ696991 |
| AW063940 | DP0975 KR | 19 | 1 | AW063940 |
| C00981 | HUMGS000337 | 19 | 5 | C00981 |
| AZ839614 | 2M0135N16 | 19 | 9 | AZ839614 |
| DR753702 | CCRA96F07 | 20 | 8 | DR753702 |
| DR907660 | CCSEN02F0 | 20 | 8 | DR907660 |
| DR907713 | CCSEN02F0 | 20 | 8 | DR907713 |
| DR907726 | CCSEN02D1 | 20 | 8 | DR907726 |
| DR907793 | CCSEN03A0 | 20 | 8 | DR907793 |
| DR907856 | CCSEN04C0 | 20 | 8 | DR907856 |
| DR907918 | CCSEN05G0 | 20 | 8 | DR907918 |
| AZ310481 | 1M0025O23 | 20 | 9 | AZ310481 |
| AZ369092 | 1M0119E01 | 20 | 9 | AZ369092 |
| AZ398062 | 1M0163M14 | 20 | 9 | AZ398062 |
| AZ406839 | 1M0176C16 | 20 | 9 | AZ406839 |
| AZ331570 | 1M0059N05 | 21 | 9 | AZ331570 |
| AZ415089 | 1M0189G17 | 21 | 9 | AZ415089 |
| AZ843343 | 2M0142K10 | 21 | 9 | AZ843343 |
| AW246884 | 2822626.3 | 22 | 1 | AW246884 |
| AZ341839 | 1M0074F01 | 22 | 9 | AZ341839 |
| AZ786587 | 2M0032J12 | 22 | 9 | AZ786587 |
| AZ822991 | 2M0096C13 | 22 | 9 | AZ822991 |
| AZ859666 | 2M0165C19 | 22 | 9 | AZ859666 |
| AZ868780 | 2M0180E12 | 22 | 9 | AZ868780 |
| AZ942905 | 2M0203K13 | 22 | 9 | AZ942905 |
| CF298297 | 7LEAF--01 | 23 | 6 | CF298297 |
| AZ333226 | 1M0062P12 | 23 | 9 | AZ333226 |
| AZ387830 | 1M0147F20 | 23 | 9 | AZ387830 |
| AZ470337 | 1M0284D21 | 23 | 9 | AZ470337 |
| AB094440 | AB094440 | 24 | 1 | AB094440 |
| AW246443 | 2821537.3 | 24 | 1 | AW246443 |
| AW249007 | 2821036.5 | 24 | 1 | AW249007 |
| AZ408805 | 1M0180B01 | 24 | 9 | AZ408805 |
| AZ437757 | 1M0226I06 | 24 | 9 | AZ437757 |
| AZ663812 | 1M0543F10 | 24 | 9 | AZ663812 |
| AZ817310 | 2M0086O16 | 24 | 9 | AZ817310 |
| CZ443307 | IBB6B04.F | 24 | 10 | CZ443307 |
| CW020374 | GC0634 TI | 24 | 10 | CW020374 |
| AL480109 | T. brucei | 24 | 11 | TA227G06P |
| AI394172 | tg60h07.x | 25 | 1 | AI394172 |
| AI624946 | tb48c07.x | 25 | 1 | AI624946 |
| AI633471 | th62809.x | 25 | 1 | AI633471 |
| AI692641 | wd86C03.x | 25 | 1 | AI692641 |
| AJ728699 | AJ728699 | 25 | 1 | AJ728699 |
| AA469268 | nc68a03.b | 25 | 1 | AA469268 |
| CF326989 | NACL--01- | 25 | 6 | CF326989 |
| CX013617 | io66c06.b | 25 | 8 | CX013617 |
| AZ339578 | 1M0071C09 | 25 | 9 | AZ339578 |
| AZ377955 | 1M0132F05 | 25 | 9 | AZ377955 |
| AZ613097 | 1M0441K18 | 25 | 9 | AZ613097 |
| AZ766498 | 1M0564E08 | 25 | 9 | AZ766498 |
| AZ979075 | 2M0255G08 | 25 | 9 | AZ979075 |
| BZ765856 | SALK_1348 | 25 | 9 | BZ765856 |
| CZ908154 | 4018002A0 | 25 | 10 | CZ908154 |
| AG203193 | Pan trogl | 25 | 10 | AG203193 |
| AJ747548 | AJ747548 | 26 | 1 | AJ747548 |
| DR105424 | JHU088C06 | 26 | 8 | DR105424 |
| AZ331583 | 1M0059A11 | 26 | 9 | AZ331583 |
| AZ432981 | 1M0218D07 | 26 | 9 | AZ432981 |
| AZ488698 | 1M0319E08 | 26 | 9 | AZ488698 |
| AZ996577 | 2M0282L16 | 26 | 9 | AZ996577 |
| BZ597044 | SALK_0993 | 26 | 9 | BZ597044 |
| BZ597147 | SALK_0994 | 26 | 9 | BZ597147 |
| DR908015 | CCSEN06C0 | 27 | 8 | DR908015 |
| 29432 | YW86H10.g1 | 27 | 8 | 29432 |
| AZ308535 | 1M0011B11 | 27 | 9 | AZ308535 |
| AZ335603 | 1M0065E13 | 27 | 9 | AZ335603 |
| AZ406142 | 1M0175G15 | 27 | 9 | AZ406142 |

| | | | | | | | | | | | | | | |
|-------|----|-----|----|----|-----------|-----------|--------------------|-------|----|-----|----|----|-----------|-----------|
| C 242 | 11 | 0.5 | 23 | 9 | AZ645254 | AZ645254 | 1M0510005 | 315 | 11 | 0.5 | 26 | 1 | AU014124 | AU014124 |
| C 243 | 11 | 0.5 | 23 | 9 | AZ763749 | AZ763749 | 1M0559B19 | C 316 | 11 | 0.5 | 26 | 3 | BM396181 | BM396181 |
| C 244 | 11 | 0.5 | 23 | 9 | AZ783377 | AZ783377 | 2M0025104 | C 317 | 11 | 0.5 | 26 | 3 | BM396652 | BM396652 |
| C 245 | 11 | 0.5 | 23 | 9 | AZ834215 | AZ834215 | 2M0116M15 | C 318 | 11 | 0.5 | 26 | 3 | BM398383 | BM398383 |
| C 246 | 11 | 0.5 | 23 | 9 | AZ844618 | AZ844618 | 2M0144M03 | C 319 | 11 | 0.5 | 26 | 3 | BM398721 | BM398721 |
| C 247 | 11 | 0.5 | 23 | 9 | AZ974350 | AZ974350 | 2M0248G20 | C 320 | 11 | 0.5 | 26 | 6 | CD744988 | CD744988 |
| C 248 | 11 | 0.5 | 23 | 9 | BH846974 | BH846974 | SALK_0122 | C 321 | 11 | 0.5 | 26 | 6 | CF302323 | CF302323 |
| C 249 | 11 | 0.5 | 23 | 10 | C2442850 | C2442850 | IBB2B7.fw | C 322 | 11 | 0.5 | 26 | 7 | CR546444 | CR546444 |
| C 250 | 11 | 0.5 | 23 | 10 | AJ194875 | AJ194875 | Pan trogl | C 323 | 11 | 0.5 | 26 | 8 | D18737 | D18737 |
| C 251 | 11 | 0.5 | 23 | 10 | AJ591934 | AJ591934 | Arabidops | C 324 | 11 | 0.5 | 26 | 9 | AZ309024 | AZ309024 |
| C 252 | 11 | 0.5 | 23 | 10 | AJ600290 | AJ600290 | Arabidops | C 325 | 11 | 0.5 | 26 | 9 | AZ329680 | AZ329680 |
| C 253 | 11 | 0.5 | 23 | 11 | TA36005P | TA36005P | Arabidops | C 326 | 11 | 0.5 | 26 | 9 | AZ339951 | AZ339951 |
| C 254 | 11 | 0.5 | 24 | 1 | AJ649702 | AJ649702 | T. brucei | C 327 | 11 | 0.5 | 26 | 9 | AZ360188 | AZ360188 |
| C 255 | 11 | 0.5 | 24 | 1 | AJ689637 | AJ689637 | AJ689637 | C 328 | 11 | 0.5 | 26 | 9 | AZ377014 | AZ377014 |
| C 256 | 11 | 0.5 | 24 | 1 | AJ257964 | AJ257964 | AJ257964 | C 329 | 11 | 0.5 | 26 | 9 | AZ448464 | AZ448464 |
| C 257 | 11 | 0.5 | 24 | 3 | BM397719 | BM397719 | 5009-0-36 | C 330 | 11 | 0.5 | 26 | 9 | AZ479681 | AZ479681 |
| C 258 | 11 | 0.5 | 24 | 6 | CF281313 | CF281313 | 14ETL--08 | C 331 | 11 | 0.5 | 26 | 9 | AZ514988 | AZ514988 |
| C 259 | 11 | 0.5 | 24 | 6 | CF302616 | CF302616 | 7LEAF--08 | C 332 | 11 | 0.5 | 26 | 9 | AZ635695 | AZ635695 |
| C 260 | 11 | 0.5 | 24 | 6 | CF302616 | CF302616 | 7LEAF--08 | C 333 | 11 | 0.5 | 26 | 9 | AZ770000 | AZ770000 |
| C 261 | 11 | 0.5 | 24 | 9 | AZ309564 | AZ309564 | 1M0016E09 | C 334 | 11 | 0.5 | 26 | 9 | AZ787221 | AZ787221 |
| C 262 | 11 | 0.5 | 24 | 9 | AZ346816 | AZ346816 | 1M0082B16 | C 335 | 11 | 0.5 | 26 | 9 | AZ828616 | AZ828616 |
| C 263 | 11 | 0.5 | 24 | 9 | AZ366164 | AZ366164 | 1M0115H20 | C 336 | 11 | 0.5 | 26 | 9 | BZ593276 | BZ593276 |
| C 264 | 11 | 0.5 | 24 | 9 | AZ474236 | AZ474236 | 1M0290J07 | C 337 | 11 | 0.5 | 26 | 9 | BZ655566 | BZ655566 |
| C 265 | 11 | 0.5 | 24 | 9 | AZ478673 | AZ478673 | 1M0298J07 | C 338 | 11 | 0.5 | 26 | 10 | CW985106 | CW985106 |
| C 266 | 11 | 0.5 | 24 | 9 | AZ626101 | AZ626101 | 1M0466J07 | C 339 | 11 | 0.5 | 26 | 10 | CZ917190 | CZ917190 |
| C 267 | 11 | 0.5 | 24 | 9 | AZ762011 | AZ762011 | 1M0556H09 | C 340 | 11 | 0.5 | 26 | 10 | CZ917641 | CZ917641 |
| C 268 | 11 | 0.5 | 24 | 9 | AZ807089 | AZ807089 | 2M0069O03 | C 341 | 11 | 0.5 | 26 | 10 | AG190196 | AG190196 |
| C 269 | 11 | 0.5 | 24 | 9 | AZ812591 | AZ812591 | 2M0079D21 | C 342 | 11 | 0.5 | 26 | 10 | AG201580 | AG201580 |
| C 270 | 11 | 0.5 | 24 | 9 | AZ841235 | AZ841235 | 2M0139C11 | C 343 | 11 | 0.5 | 26 | 10 | CG732288 | CG732288 |
| C 271 | 11 | 0.5 | 24 | 9 | AZ960477 | AZ960477 | 2M0228J04 | C 344 | 11 | 0.5 | 26 | 11 | TA128F12P | TA128F12P |
| C 272 | 11 | 0.5 | 24 | 9 | BH790181 | BH790181 | SALK_0565 | C 345 | 11 | 0.5 | 26 | 11 | TA171C11P | TA171C11P |
| C 273 | 11 | 0.5 | 24 | 9 | BH791102 | BH791102 | SALK_0587 | C 346 | 11 | 0.5 | 27 | 1 | AJ747882 | AJ747882 |
| C 274 | 11 | 0.5 | 24 | 10 | AG201478 | AG201478 | Pan trogl | C 347 | 11 | 0.5 | 27 | 1 | AL037884 | AL037884 |
| C 275 | 11 | 0.5 | 24 | 10 | AG201866 | AG201866 | Pan trogl | C 348 | 11 | 0.5 | 27 | 1 | AL930306 | AL930306 |
| C 276 | 11 | 0.5 | 24 | 10 | AG202182 | AG202182 | Pan trogl | C 349 | 11 | 0.5 | 27 | 1 | AM248062 | AM248062 |
| C 277 | 11 | 0.5 | 24 | 10 | AJ587625 | AJ587625 | Arabidops | C 350 | 11 | 0.5 | 27 | 1 | AM250467 | AM250467 |
| C 278 | 11 | 0.5 | 24 | 10 | CL676551 | CL676551 | PR10118D | C 351 | 11 | 0.5 | 27 | 6 | CF278366 | CF278366 |
| C 279 | 11 | 0.5 | 24 | 11 | TA114H08P | TA114H08P | AL462619 T. brucei | C 352 | 11 | 0.5 | 27 | 6 | CF298133 | CF298133 |
| C 280 | 11 | 0.5 | 25 | 1 | AA931670 | AA931670 | oo32b01.s | C 353 | 11 | 0.5 | 27 | 6 | CF319828 | CF319828 |
| C 281 | 11 | 0.5 | 25 | 1 | AI471126 | AI471126 | tf90e05.x | C 354 | 11 | 0.5 | 27 | 6 | CF325420 | CF325420 |
| C 282 | 11 | 0.5 | 25 | 1 | AU259074 | AU259074 | 5009-0-30 | C 355 | 11 | 0.5 | 27 | 8 | D18733 | D18733 |
| C 283 | 11 | 0.5 | 25 | 3 | BM397256 | BM397256 | 5009-0-43 | C 356 | 11 | 0.5 | 27 | 9 | AQ074123 | AQ074123 |
| C 284 | 11 | 0.5 | 25 | 3 | BM398307 | BM398307 | 5009-0-44 | C 357 | 11 | 0.5 | 27 | 9 | AQ074123 | AQ074123 |
| C 285 | 11 | 0.5 | 25 | 3 | BM398324 | BM398324 | 5009-0-49 | C 358 | 11 | 0.5 | 27 | 9 | AZ476237 | AZ476237 |
| C 286 | 11 | 0.5 | 25 | 3 | BM398713 | BM398713 | 5009-0-49 | C 359 | 11 | 0.5 | 27 | 9 | AZ511058 | AZ511058 |
| C 287 | 11 | 0.5 | 25 | 8 | DN954740 | DN954740 | it77c05.g | C 360 | 11 | 0.5 | 27 | 9 | AZ778941 | AZ778941 |
| C 288 | 11 | 0.5 | 25 | 8 | H96935 | H96935 | yu01d01.r1 | C 361 | 11 | 0.5 | 27 | 9 | AZ793374 | AZ793374 |
| C 289 | 11 | 0.5 | 25 | 9 | AZ329925 | AZ329925 | 1M0054N14 | C 362 | 11 | 0.5 | 27 | 9 | AZ794257 | AZ794257 |
| C 290 | 11 | 0.5 | 25 | 9 | AZ364381 | AZ364381 | 1M0110A08 | C 363 | 11 | 0.5 | 27 | 9 | AZ794828 | AZ794828 |
| C 291 | 11 | 0.5 | 25 | 9 | AZ377071 | AZ377071 | 1M0131A16 | C 364 | 11 | 0.5 | 27 | 9 | AZ810485 | AZ810485 |
| C 292 | 11 | 0.5 | 25 | 9 | AZ404078 | AZ404078 | 1M0172J07 | C 365 | 11 | 0.5 | 27 | 9 | AZ823699 | AZ823699 |
| C 293 | 11 | 0.5 | 25 | 9 | AZ424958 | AZ424958 | 1M0204L17 | C 366 | 11 | 0.5 | 27 | 9 | AZ863023 | AZ863023 |
| C 294 | 11 | 0.5 | 25 | 9 | AZ460726 | AZ460726 | 1M0266O10 | C 367 | 11 | 0.5 | 27 | 9 | AZ876196 | AZ876196 |
| C 295 | 11 | 0.5 | 25 | 9 | AZ496986 | AZ496986 | 1M0333H09 | C 368 | 11 | 0.5 | 27 | 9 | AZ990987 | AZ990987 |
| C 296 | 11 | 0.5 | 25 | 9 | AZ515233 | AZ515233 | 1M0054N14 | C 369 | 11 | 0.5 | 27 | 9 | BH910914 | BH910914 |
| C 297 | 11 | 0.5 | 25 | 9 | AZ599533 | AZ599533 | 1M0414N20 | C 370 | 11 | 0.5 | 27 | 9 | BZ352541 | BZ352541 |
| C 298 | 11 | 0.5 | 25 | 9 | AZ611662 | AZ611662 | 1M0438E10 | C 371 | 11 | 0.5 | 27 | 9 | BZ382404 | BZ382404 |
| C 299 | 11 | 0.5 | 25 | 9 | AZ789087 | AZ789087 | 2M0036C07 | C 372 | 11 | 0.5 | 27 | 9 | CC794422 | CC794422 |
| C 300 | 11 | 0.5 | 25 | 9 | AZ826493 | AZ826493 | 2M0102L24 | C 373 | 11 | 0.5 | 27 | 9 | CC794424 | CC794424 |
| C 301 | 11 | 0.5 | 25 | 9 | AZ944762 | AZ944762 | 2M0205N19 | C 374 | 11 | 0.5 | 27 | 10 | CZ473980 | CZ473980 |
| C 302 | 11 | 0.5 | 25 | 9 | BH791706 | BH791706 | SALK_0609 | C 375 | 11 | 0.5 | 27 | 10 | CZ474656 | CZ474656 |
| C 303 | 11 | 0.5 | 25 | 9 | BH812013 | BH812013 | SALK_0698 | C 376 | 11 | 0.5 | 27 | 10 | CZ908520 | CZ908520 |
| C 304 | 11 | 0.5 | 25 | 9 | BZ596723 | BZ596723 | SALK_0958 | C 377 | 11 | 0.5 | 27 | 10 | CZ918264 | CZ918264 |
| C 305 | 11 | 0.5 | 25 | 9 | BZ765670 | BZ765670 | SALK_1333 | C 378 | 11 | 0.5 | 27 | 10 | CG712589 | CG712589 |
| C 306 | 11 | 0.5 | 25 | 9 | CC060376 | CC060376 | EY05060-3 | C 379 | 11 | 0.5 | 27 | 10 | CG712589 | CG712589 |
| C 307 | 11 | 0.5 | 25 | 9 | CC887498 | CC887498 | SALK_1502 | C 380 | 11 | 0.5 | 27 | 10 | CG728389 | CG728389 |
| C 308 | 11 | 0.5 | 25 | 10 | CZ485783 | CZ485783 | f03237-5p | C 381 | 11 | 0.5 | 27 | 10 | CL654516 | CL654516 |
| C 309 | 11 | 0.5 | 25 | 10 | CZ489366 | CZ489366 | f06657-5p | C 382 | 11 | 0.5 | 28 | 1 | AA860299 | AA860299 |
| C 310 | 11 | 0.5 | 25 | 10 | AG193956 | AG193956 | Pan trogl | C 383 | 11 | 0.5 | 28 | 1 | AA916534 | AA916534 |
| C 311 | 11 | 0.5 | 25 | 10 | CG727695 | CG727695 | 1119096A1 | C 384 | 11 | 0.5 | 28 | 1 | AA960907 | AA960907 |
| C 312 | 11 | 0.5 | 25 | 11 | CL657591 | CL657591 | PR10128_A | C 385 | 11 | 0.5 | 28 | 1 | AA990156 | AA990156 |
| C 313 | 11 | 0.5 | 25 | 11 | TA350204P | TA350204P | T. brucei | C 386 | 11 | 0.5 | 28 | 1 | AI461340 | AI461340 |
| C 314 | 11 | 0.5 | 26 | 1 | AJ804257 | AJ804257 | AJ804257 | C 387 | 11 | 0.5 | 28 | 1 | AI569493 | AI569493 |

| | | | | | | | | | | | | | |
|-------|----|-----|----|----|-----------|---------------------|-------|----|-----|----|----|-----------|----------------------|
| 388 | 11 | 0.5 | 28 | 1 | AI573848 | AI573848 u17a12.x | 461 | 11 | 0.5 | 29 | 9 | B2355151 | B2355151 SALK_1264 |
| 389 | 11 | 0.5 | 28 | 1 | AI697335 | AI697335 tgl8a01.x | c 462 | 11 | 0.5 | 29 | 9 | B2355151 | B2355151 SALK_1264 |
| 390 | 11 | 0.5 | 28 | 1 | AI810171 | AI810171 wF8e06.x | c 463 | 11 | 0.5 | 29 | 9 | B2356508 | B2356508 SALK_1292 |
| 391 | 11 | 0.5 | 28 | 1 | AI585313 | AI585313 AL585313 | c 464 | 11 | 0.5 | 29 | 9 | B2593569 | B2593569 SALK_0740 |
| 392 | 11 | 0.5 | 28 | 1 | AA234762 | AA234762 z83g07.r | c 465 | 11 | 0.5 | 29 | 9 | B2593569 | B2593569 SALK_0740 |
| c 393 | 11 | 0.5 | 28 | 1 | AA568352 | AA568352 n18a08.f | c 466 | 11 | 0.5 | 29 | 9 | B2597218 | B2597218 SALK_1005 |
| c 394 | 11 | 0.5 | 28 | 2 | BG673330 | BG673330 DRNBSF09 | c 467 | 11 | 0.5 | 29 | 9 | B2597218 | B2597218 SALK_1005 |
| c 395 | 11 | 0.5 | 28 | 5 | BO582726 | BO582726 E012280-0 | c 468 | 11 | 0.5 | 29 | 9 | B2770812 | B2770812 SALK_1437 |
| c 396 | 11 | 0.5 | 28 | 6 | CF277114 | CF277114 l4ETL--02 | c 469 | 11 | 0.5 | 29 | 9 | CC457108 | CC457108 SALK_1065 |
| c 397 | 11 | 0.5 | 28 | 6 | CF307749 | CF307749 ABF--01-E | c 470 | 11 | 0.5 | 29 | 9 | CC796943 | CC796943 SALK_1442 |
| c 398 | 11 | 0.5 | 28 | 6 | CF319548 | CF319548 HD--10-B1 | c 471 | 11 | 0.5 | 29 | 10 | C2171125 | C2171125 MIAA-SK22 |
| 399 | 11 | 0.5 | 28 | 6 | CF543310 | CF543310 Y014679-0 | c 472 | 11 | 0.5 | 29 | 10 | C2442828 | C2442828 IB81F8.fw |
| 400 | 11 | 0.5 | 28 | 8 | H68053 | H68053 yr74f04.r1 | c 473 | 11 | 0.5 | 29 | 10 | C2443037 | C2443037 IB86H08.f |
| c 401 | 11 | 0.5 | 28 | 8 | W92724 | W92724 zd92a07.bl | c 474 | 11 | 0.5 | 29 | 10 | C2474108 | C2474108 d04746-5p |
| c 402 | 11 | 0.5 | 28 | 9 | AZ352539 | AZ352539 IM0090J21 | c 475 | 11 | 0.5 | 29 | 10 | C2475439 | C2475439 d06940-5p |
| 403 | 11 | 0.5 | 28 | 9 | AZ366396 | AZ366396 IM0115C10 | c 476 | 11 | 0.5 | 29 | 10 | AJ596137 | AJ596137 Arabidops |
| 404 | 11 | 0.5 | 28 | 9 | AZ393417 | AZ393417 IM0156A01 | c 477 | 11 | 0.5 | 29 | 10 | AJ597868 | AJ597868 Arabidops |
| 405 | 11 | 0.5 | 28 | 9 | AZ427495 | AZ427495 IM0209A06 | c 478 | 11 | 0.5 | 29 | 10 | AJ600188 | AJ600188 Arabidops |
| 406 | 11 | 0.5 | 28 | 9 | AZ461659 | AZ461659 IM0267D11 | c 479 | 11 | 0.5 | 29 | 10 | CG720669 | CG720669 1119063D0 |
| c 407 | 11 | 0.5 | 28 | 9 | AZ514352 | AZ514352 IM0360F06 | c 480 | 11 | 0.5 | 29 | 10 | CL657998 | CL657998 PRI0130a |
| c 408 | 11 | 0.5 | 28 | 9 | AZ629883 | AZ629883 IM0483H09 | c 481 | 11 | 0.5 | 29 | 10 | DMES46334 | DMES46334 Drosoophi1 |
| c 409 | 11 | 0.5 | 28 | 9 | AZ632301 | AZ632301 IM0486C23 | c 482 | 11 | 0.5 | 29 | 11 | TA252H11Q | TA252H11Q T. brucei |
| c 410 | 11 | 0.5 | 28 | 9 | AZ643395 | AZ643395 IM0507M11 | c 483 | 11 | 0.5 | 29 | 11 | TA6H12Q | TA6H12Q T. brucei |
| 411 | 11 | 0.5 | 28 | 9 | AZ643955 | AZ643955 IM0507M11 | c 484 | 11 | 0.5 | 29 | 11 | TA74E04P | TA74E04P T. brucei |
| 412 | 11 | 0.5 | 28 | 9 | AZ782057 | AZ782057 IM0021P24 | c 485 | 11 | 0.5 | 30 | 1 | AL038672 | AL038672 DKF2p556J |
| c 413 | 11 | 0.5 | 28 | 9 | AZ803177 | AZ803177 IM0063K21 | c 486 | 11 | 0.5 | 30 | 1 | AL042847 | AL042847 DKF2p434G |
| c 414 | 11 | 0.5 | 28 | 9 | AZ836072 | AZ836072 IM0130K08 | c 487 | 11 | 0.5 | 30 | 1 | AU251318 | AU251318 AU251318 |
| c 415 | 11 | 0.5 | 28 | 9 | AZ850027 | AZ850027 IM0151F09 | c 488 | 11 | 0.5 | 30 | 1 | AW246132 | AW246132 2821168.5 |
| c 416 | 11 | 0.5 | 28 | 9 | AZ853595 | AZ853595 IM0156D23 | c 489 | 11 | 0.5 | 30 | 2 | AW251024 | AW251024 2821201.3 |
| 417 | 11 | 0.5 | 28 | 9 | AZ869547 | AZ869547 IM0181007 | c 490 | 11 | 0.5 | 30 | 2 | BG287505 | BG287505 602384515 |
| 418 | 11 | 0.5 | 28 | 9 | AZ940571 | AZ940571 IM0200D06 | c 491 | 11 | 0.5 | 30 | 2 | BE727754 | BE727754 601564575 |
| c 419 | 11 | 0.5 | 28 | 9 | AZ940571 | AZ940571 IM0200D06 | c 492 | 11 | 0.5 | 30 | 3 | BM398771 | BM398771 5009-0-5- |
| c 420 | 11 | 0.5 | 28 | 9 | AZ961930 | AZ961930 IM0230L03 | c 493 | 11 | 0.5 | 30 | 3 | BM399411 | BM399411 5009-0-5- |
| 421 | 11 | 0.5 | 28 | 10 | CZ916890 | CZ916890 4021003D0 | c 494 | 11 | 0.5 | 30 | 6 | CA587447 | CA587447 LBE12p52 |
| 422 | 11 | 0.5 | 28 | 10 | AJ587345 | AJ587345 Arabidops | c 495 | 11 | 0.5 | 30 | 6 | CA587447 | CA587447 LBE12p52 |
| c 423 | 11 | 0.5 | 28 | 10 | AJ596158 | AJ596158 Arabidops | c 496 | 11 | 0.5 | 30 | 6 | CF302271 | CF302271 7LEAF--07 |
| 424 | 11 | 0.5 | 28 | 10 | CG710232 | CG710232 119016E1 | c 497 | 11 | 0.5 | 30 | 6 | CF331804 | CF331804 NACL--08 |
| 425 | 11 | 0.5 | 28 | 10 | CG711142 | CG711142 1119047B0 | c 498 | 11 | 0.5 | 30 | 6 | CF333289 | CF333289 JMT--02-C |
| c 426 | 11 | 0.5 | 28 | 11 | TA146D10P | TA146D10P T. brucei | c 499 | 11 | 0.5 | 30 | 7 | CO781367 | CO781367 BL012B-A0 |
| c 427 | 11 | 0.5 | 28 | 11 | TA57602Q | TA57602Q T. brucei | c 500 | 11 | 0.5 | 30 | 7 | CO786831 | CO786831 BL287B-H0 |
| c 428 | 11 | 0.5 | 29 | 1 | AL037400 | AL037400 DKF2p564K | c 501 | 11 | 0.5 | 30 | 8 | CV845470 | CV845470 IDOABE12B |
| c 429 | 11 | 0.5 | 29 | 1 | AL010846 | AL010846 AU010846 | c 502 | 11 | 0.5 | 30 | 8 | CV933425 | CV933425 PMpcm.07 |
| c 430 | 11 | 0.5 | 29 | 1 | AU010908 | AU010908 AU010908 | c 503 | 11 | 0.5 | 30 | 8 | DR107593 | DR107593 JHU142H11 |
| c 431 | 11 | 0.5 | 29 | 1 | AU263888 | AU263888 AU263888 | c 504 | 11 | 0.5 | 30 | 9 | AZ327043 | AZ327043 IM0050M11 |
| c 432 | 11 | 0.5 | 29 | 6 | CA797153 | CA797153 CaC_RL_42 | c 505 | 11 | 0.5 | 30 | 9 | AZ408639 | AZ408639 IM0179123 |
| 433 | 11 | 0.5 | 29 | 6 | CD532572 | CD532572 27P14_Ara | c 506 | 11 | 0.5 | 30 | 9 | AZ475134 | AZ475134 IM0293A14 |
| 434 | 11 | 0.5 | 29 | 6 | CF281394 | CF281394 14ETL--08 | c 507 | 11 | 0.5 | 30 | 9 | AZ579506 | AZ579506 IM0367E06 |
| c 435 | 11 | 0.5 | 29 | 6 | CF302487 | CF302487 7LEAF--08 | c 508 | 11 | 0.5 | 30 | 9 | AZ604126 | AZ604126 IM0423013 |
| c 436 | 11 | 0.5 | 29 | 6 | CF328988 | CF328988 NACL--04- | c 509 | 11 | 0.5 | 30 | 9 | AZ780802 | AZ780802 IM0018F24 |
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| c 438 | 11 | 0.5 | 29 | 8 | DN955450 | DN955450 t87h12.g | c 511 | 11 | 0.5 | 30 | 9 | BH854506 | BH854506 KG01921-3 |
| c 439 | 11 | 0.5 | 29 | 8 | DR072912 | DR072912 1k79b03.g | c 512 | 11 | 0.5 | 30 | 9 | BZ352498 | BZ352498 SALK_0807 |
| c 440 | 11 | 0.5 | 29 | 8 | DR073498 | DR073498 ik80c04.g | c 513 | 11 | 0.5 | 30 | 9 | CC053943 | CC053943 SALK_0508 |
| c 441 | 11 | 0.5 | 29 | 8 | AZ360788 | AZ360788 IM0104M12 | c 514 | 11 | 0.5 | 30 | 9 | CC053945 | CC053945 SALK_0508 |
| c 442 | 11 | 0.5 | 29 | 9 | AZ380056 | AZ380056 IM0135H01 | c 515 | 11 | 0.5 | 30 | 10 | CZ442831 | CZ442831 IBB1G2.fw |
| c 443 | 11 | 0.5 | 29 | 9 | AZ435208 | AZ435208 IM0222I06 | c 516 | 11 | 0.5 | 30 | 10 | CZ443022 | CZ443022 IBB6E08.f |
| c 444 | 11 | 0.5 | 29 | 9 | AZ435610 | AZ435610 IM0222C14 | c 517 | 11 | 0.5 | 30 | 10 | CZ469012 | CZ469012 c04136-5p |
| c 445 | 11 | 0.5 | 29 | 9 | AZ447253 | AZ447253 IM0244N24 | c 518 | 11 | 0.5 | 30 | 10 | CZ470876 | CZ470876 c06633-5p |
| c 446 | 11 | 0.5 | 29 | 9 | AZ456064 | AZ456064 IM0258N11 | c 519 | 11 | 0.5 | 30 | 10 | CZ472547 | CZ472547 d01980-3p |
| 447 | 11 | 0.5 | 29 | 9 | AZ476258 | AZ476258 IM0294F22 | c 520 | 11 | 0.5 | 30 | 10 | CZ473743 | CZ473743 d04124-3p |
| c 448 | 11 | 0.5 | 29 | 9 | AZ476258 | AZ476258 IM0294F22 | c 521 | 11 | 0.5 | 30 | 10 | CZ473996 | CZ473996 d04557-5p |
| c 449 | 11 | 0.5 | 29 | 9 | AZ487268 | AZ487268 IM0316G18 | c 522 | 11 | 0.5 | 30 | 10 | CZ476227 | CZ476227 d08425-5p |
| c 450 | 11 | 0.5 | 29 | 9 | AZ579541 | AZ579541 IM0367I08 | c 523 | 11 | 0.5 | 30 | 10 | CZ476239 | CZ476239 d08453-5p |
| 451 | 11 | 0.5 | 29 | 9 | AZ592563 | AZ592563 IM0403L06 | c 524 | 11 | 0.5 | 30 | 10 | CZ476247 | CZ476247 d0467-3p |
| 452 | 11 | 0.5 | 29 | 9 | AZ633359 | AZ633359 IM0488K02 | c 525 | 11 | 0.5 | 30 | 10 | CZ476316 | CZ476316 d08592-3p |
| 453 | 11 | 0.5 | 29 | 9 | AZ642468 | AZ642468 IM0505F04 | c 526 | 11 | 0.5 | 30 | 10 | CZ477413 | CZ477413 d10744-5p |
| c 454 | 11 | 0.5 | 29 | 9 | AZ767274 | AZ767274 IM0566B24 | c 527 | 11 | 0.5 | 30 | 10 | CZ477728 | CZ477728 d11445-5p |
| c 455 | 11 | 0.5 | 29 | 9 | AZ774255 | AZ774255 IM0003L24 | c 528 | 11 | 0.5 | 30 | 10 | CZ483339 | CZ483339 f0858-3p |
| c 456 | 11 | 0.5 | 29 | 9 | AZ790063 | AZ790063 IM0038B24 | c 529 | 11 | 0.5 | 30 | 10 | CZ484532 | CZ484532 f02033-5p |
| c 457 | 11 | 0.5 | 29 | 9 | AZ803607 | AZ803607 IM0064A10 | c 530 | 11 | 0.5 | 30 | 10 | CZ489382 | CZ489382 f06669-5p |
| c 458 | 11 | 0.5 | 29 | 9 | AZ806533 | AZ806533 IM0068H09 | c 531 | 11 | 0.5 | 30 | 10 | CZ916228 | CZ916228 4013015E0 |
| 459 | 11 | 0.5 | 29 | 9 | AZ983252 | AZ983252 IM0264A22 | c 532 | 11 | 0.5 | 30 | 10 | CZ917310 | CZ917310 4021005B0 |
| c 460 | 11 | 0.5 | 29 | 9 | BH911930 | BH911930 KG05912b- | c 533 | 11 | 0.5 | 30 | 10 | AG195132 | AG195132 Pan trolg1 |

| | | | | | | | | | | | | | | |
|-------|----|-----|----|----|-----------|-----------|-------|----|-----|----|----|----------|----------|-----------|
| C 534 | 11 | 0.5 | 30 | 10 | AJ589015 | Arabidops | 607 | 10 | 0.4 | 19 | 7 | CN750859 | CN750859 | ApDT-XXVI |
| C 535 | 11 | 0.5 | 30 | 10 | AJ597723 | Arabidops | C 608 | 10 | 0.4 | 19 | 8 | CX012806 | CX012806 | 1o61E04.b |
| C 536 | 11 | 0.5 | 30 | 10 | BX662165 | Arabidops | C 609 | 10 | 0.4 | 19 | 8 | DN955346 | DN955346 | 1e86E08.g |
| C 537 | 11 | 0.5 | 30 | 10 | CL659611 | PRIO134c | 610 | 10 | 0.4 | 19 | 8 | DN955504 | DN955504 | 1c88G06.g |
| C 538 | 11 | 0.5 | 30 | 11 | DR31A15T | AL987581 | 611 | 10 | 0.4 | 19 | 8 | DR074151 | DR074151 | 1K99H04.g |
| C 539 | 11 | 0.5 | 30 | 11 | TAl19G10Q | AL463276 | 612 | 10 | 0.4 | 19 | 9 | AZ312945 | AZ312945 | 1M0039P03 |
| C 540 | 11 | 0.5 | 30 | 11 | TA217A02Q | AL478965 | C 613 | 10 | 0.4 | 19 | 9 | AZ314143 | AZ314143 | 1M0030K16 |
| C 541 | 11 | 0.5 | 30 | 11 | TA240F05P | AL481612 | C 614 | 10 | 0.4 | 19 | 9 | AZ323612 | AZ323612 | 1M0045F08 |
| C 542 | 10 | 0.4 | 11 | 3 | BM395228 | BM395228 | 615 | 10 | 0.4 | 19 | 9 | AZ335117 | AZ335117 | 1M0064P16 |
| C 543 | 10 | 0.4 | 12 | 5 | BQ594229 | BQ594229 | C 616 | 10 | 0.4 | 19 | 9 | AZ333987 | AZ333987 | 1M0071C06 |
| C 544 | 10 | 0.4 | 13 | 1 | AI338340 | AI338340 | C 617 | 10 | 0.4 | 19 | 9 | AZ345941 | AZ345941 | 1M0080M21 |
| C 545 | 10 | 0.4 | 13 | 1 | AJ647906 | AJ647906 | 618 | 10 | 0.4 | 19 | 9 | AZ424757 | AZ424757 | 1M0204G02 |
| C 546 | 10 | 0.4 | 13 | 3 | BM395395 | BM395395 | 619 | 10 | 0.4 | 19 | 9 | AZ445563 | AZ445563 | 1M0241P18 |
| C 547 | 10 | 0.4 | 13 | 7 | CN749468 | CN749468 | C 620 | 10 | 0.4 | 19 | 9 | AZ460812 | AZ460812 | 1M0266A21 |
| C 548 | 10 | 0.4 | 13 | 10 | AJ597088 | AJ597088 | C 621 | 10 | 0.4 | 19 | 9 | AZ480905 | AZ480905 | 1M0302N22 |
| C 549 | 10 | 0.4 | 13 | 10 | AJ597106 | AJ597106 | C 622 | 10 | 0.4 | 19 | 9 | AZ510122 | AZ510122 | 1M0354K20 |
| C 550 | 10 | 0.4 | 14 | 1 | AJ655566 | AJ655566 | C 623 | 10 | 0.4 | 19 | 9 | AZ514571 | AZ514571 | 1M0361O11 |
| C 551 | 10 | 0.4 | 14 | 5 | BQ590450 | BQ590450 | C 624 | 10 | 0.4 | 19 | 9 | AZ593103 | AZ593103 | 1M0404N24 |
| C 552 | 10 | 0.4 | 14 | 6 | CF330198 | CF330198 | C 625 | 10 | 0.4 | 19 | 9 | AZ604234 | AZ604234 | 1M0425C04 |
| C 553 | 10 | 0.4 | 14 | 8 | DN988472 | DN988472 | C 626 | 10 | 0.4 | 19 | 9 | AZ608537 | AZ608537 | 1M0432N14 |
| C 554 | 10 | 0.4 | 14 | 10 | AJ593068 | AJ593068 | C 627 | 10 | 0.4 | 19 | 9 | AZ611602 | AZ611602 | 1M0438G03 |
| C 555 | 10 | 0.4 | 14 | 10 | AJ598479 | AJ598479 | C 628 | 10 | 0.4 | 19 | 9 | AZ623663 | AZ623663 | 1M0461E07 |
| C 556 | 10 | 0.4 | 15 | 1 | AW249689 | AW249689 | C 629 | 10 | 0.4 | 19 | 9 | AZ645841 | AZ645841 | 1M0551G04 |
| C 557 | 10 | 0.4 | 15 | 1 | AW30976 | AW30976 | C 630 | 10 | 0.4 | 19 | 9 | AZ659603 | AZ659603 | 1M0537N06 |
| C 558 | 10 | 0.4 | 15 | 8 | CX002571 | CX002571 | C 631 | 10 | 0.4 | 19 | 9 | AZ759607 | AZ759607 | 1M0552I23 |
| C 559 | 10 | 0.4 | 15 | 10 | AJ592951 | AJ592951 | C 632 | 10 | 0.4 | 19 | 9 | AZ765310 | AZ765310 | 1M0562M12 |
| C 560 | 10 | 0.4 | 15 | 10 | AJ592952 | AJ592952 | C 633 | 10 | 0.4 | 19 | 9 | AZ771560 | AZ771560 | 1M0574A03 |
| C 561 | 10 | 0.4 | 15 | 10 | AJ596116 | AJ596116 | C 634 | 10 | 0.4 | 19 | 9 | AZ796963 | AZ796963 | 2M0052K24 |
| C 562 | 10 | 0.4 | 15 | 10 | CL423648 | CL423648 | C 635 | 10 | 0.4 | 19 | 9 | AZ807609 | AZ807609 | 2M0070M03 |
| C 563 | 10 | 0.4 | 16 | 1 | AI094839 | AI094839 | 636 | 10 | 0.4 | 19 | 9 | AZ810717 | AZ810717 | 2M0076N24 |
| C 564 | 10 | 0.4 | 16 | 6 | CF291803 | CF291803 | C 637 | 10 | 0.4 | 19 | 9 | AZ819339 | AZ819339 | 2M0089I19 |
| C 565 | 10 | 0.4 | 16 | 7 | CK255349 | CK255349 | C 638 | 10 | 0.4 | 19 | 9 | AZ819577 | AZ819577 | 2M0091H18 |
| C 566 | 10 | 0.4 | 16 | 10 | AJ587352 | AJ587352 | C 639 | 10 | 0.4 | 19 | 9 | AZ827164 | AZ827164 | 2M0103M22 |
| C 567 | 10 | 0.4 | 16 | 10 | AJ587896 | AJ587896 | C 640 | 10 | 0.4 | 19 | 9 | AZ853320 | AZ853320 | 2M0156J15 |
| C 568 | 10 | 0.4 | 16 | 10 | AJ592112 | AJ592112 | C 641 | 10 | 0.4 | 19 | 9 | AZ856873 | AZ856873 | 2M0161O19 |
| C 569 | 10 | 0.4 | 16 | 10 | AJ595160 | AJ595160 | C 642 | 10 | 0.4 | 19 | 9 | AZ949057 | AZ949057 | 2M0212A20 |
| C 570 | 10 | 0.4 | 17 | 1 | AW246518 | AW246518 | C 643 | 10 | 0.4 | 19 | 9 | AZ950028 | AZ950028 | 2M0213L19 |
| C 571 | 10 | 0.4 | 17 | 1 | AW247673 | AW247673 | C 644 | 10 | 0.4 | 19 | 9 | AZ962226 | AZ962226 | 2M0231A02 |
| C 572 | 10 | 0.4 | 17 | 1 | AW248779 | AW248779 | C 645 | 10 | 0.4 | 19 | 9 | AZ990851 | AZ990851 | 2M0274E15 |
| C 573 | 10 | 0.4 | 17 | 5 | BQ584792 | BQ584792 | C 646 | 10 | 0.4 | 19 | 9 | AZ995149 | AZ995149 | 2M0280D22 |
| C 574 | 10 | 0.4 | 17 | 5 | BQ591885 | BQ591885 | C 647 | 10 | 0.4 | 19 | 10 | CL670097 | CL670097 | PRIO1618 |
| C 575 | 10 | 0.4 | 17 | 6 | CF302447 | CF302447 | C 648 | 10 | 0.4 | 19 | 10 | CL681299 | CL681299 | PRIO130D |
| C 576 | 10 | 0.4 | 17 | 6 | CF313013 | CF313013 | C 649 | 10 | 0.4 | 19 | 10 | CL688118 | CL688118 | PRIO148C |
| C 577 | 10 | 0.4 | 17 | 8 | DN986605 | DN986605 | C 650 | 10 | 0.4 | 20 | 1 | AJ666275 | AJ666275 | AJ666275 |
| C 578 | 10 | 0.4 | 17 | 10 | AJ589287 | AJ589287 | C 651 | 10 | 0.4 | 20 | 1 | AJ666323 | AJ666323 | AJ666323 |
| C 579 | 10 | 0.4 | 17 | 1 | AJ725745 | AJ725745 | C 652 | 10 | 0.4 | 20 | 1 | AJ692521 | AJ692521 | AJ692521 |
| C 580 | 10 | 0.4 | 18 | 1 | AW247875 | AW247875 | C 653 | 10 | 0.4 | 20 | 1 | AU254453 | AU254453 | AU254453 |
| C 581 | 10 | 0.4 | 18 | 1 | AW249853 | AW249853 | C 654 | 10 | 0.4 | 20 | 1 | AU256704 | AU256704 | AU256704 |
| C 582 | 10 | 0.4 | 18 | 1 | AW250449 | AW250449 | C 655 | 10 | 0.4 | 20 | 3 | BM400174 | BM400174 | BM400174 |
| C 583 | 10 | 0.4 | 18 | 3 | BM395302 | BM395302 | C 656 | 10 | 0.4 | 20 | 5 | BX558127 | BX558127 | BX558127 |
| C 584 | 10 | 0.4 | 18 | 3 | BM658677 | BM658677 | C 657 | 10 | 0.4 | 20 | 6 | CA853586 | CA853586 | CA853586 |
| C 585 | 10 | 0.4 | 18 | 7 | CF301057 | CF301057 | C 658 | 10 | 0.4 | 20 | 6 | CD533611 | CD533611 | CD533611 |
| C 586 | 10 | 0.4 | 18 | 7 | CR555236 | CR555236 | C 659 | 10 | 0.4 | 20 | 6 | CF280828 | CF280828 | CF280828 |
| C 587 | 10 | 0.4 | 18 | 10 | CL696108 | CL696108 | C 660 | 10 | 0.4 | 20 | 6 | CF296226 | CF296226 | CF296226 |
| C 588 | 10 | 0.4 | 19 | 1 | AI033338 | AI033338 | C 661 | 10 | 0.4 | 20 | 6 | CF301771 | CF301771 | CF301771 |
| C 589 | 10 | 0.4 | 19 | 1 | AI476315 | AI476315 | C 662 | 10 | 0.4 | 20 | 6 | CF322590 | CF322590 | CF322590 |
| C 590 | 10 | 0.4 | 19 | 1 | AI569191 | AI569191 | C 663 | 10 | 0.4 | 20 | 6 | CF331733 | CF331733 | CF331733 |
| C 591 | 10 | 0.4 | 19 | 1 | AI688430 | AI688430 | C 664 | 10 | 0.4 | 20 | 6 | CF339806 | CF339806 | CF339806 |
| C 592 | 10 | 0.4 | 19 | 1 | AJ666236 | AJ666236 | C 665 | 10 | 0.4 | 20 | 6 | CF340627 | CF340627 | CF340627 |
| C 593 | 10 | 0.4 | 19 | 1 | AJ747498 | AJ747498 | C 666 | 10 | 0.4 | 20 | 7 | CN756517 | CN756517 | ID0AAA18D |
| C 594 | 10 | 0.4 | 19 | 1 | AW246477 | AW246477 | C 667 | 10 | 0.4 | 20 | 8 | CV999744 | CV999744 | CV999744 |
| C 595 | 10 | 0.4 | 19 | 1 | AW246513 | AW246513 | C 668 | 10 | 0.4 | 20 | 8 | DR987248 | DR987248 | DR987248 |
| C 596 | 10 | 0.4 | 19 | 1 | AW249615 | AW249615 | C 669 | 10 | 0.4 | 20 | 8 | DR061489 | DR061489 | DR061489 |
| C 597 | 10 | 0.4 | 19 | 6 | CA794263 | CA794263 | C 670 | 10 | 0.4 | 20 | 9 | AZ308068 | AZ308068 | AZ308068 |
| C 598 | 10 | 0.4 | 19 | 6 | CB412817 | CB412817 | C 671 | 10 | 0.4 | 20 | 9 | AZ308311 | AZ308311 | AZ308311 |
| C 599 | 10 | 0.4 | 19 | 6 | CF280788 | CF280788 | C 672 | 10 | 0.4 | 20 | 9 | AZ309672 | AZ309672 | AZ309672 |
| C 600 | 10 | 0.4 | 19 | 6 | CF305417 | CF305417 | C 673 | 10 | 0.4 | 20 | 9 | AZ316351 | AZ316351 | AZ316351 |
| C 601 | 10 | 0.4 | 19 | 6 | CF310821 | CF310821 | C 674 | 10 | 0.4 | 20 | 9 | AZ317019 | AZ317019 | AZ317019 |
| C 602 | 10 | 0.4 | 19 | 6 | CF311668 | CF311668 | C 675 | 10 | 0.4 | 20 | 9 | AZ333215 | AZ333215 | AZ333215 |
| C 603 | 10 | 0.4 | 19 | 6 | CF316655 | CF316655 | C 676 | 10 | 0.4 | 20 | 9 | AZ337307 | AZ337307 | AZ337307 |
| C 604 | 10 | 0.4 | 19 | 6 | CF332005 | CF332005 | C 677 | 10 | 0.4 | 20 | 9 | AZ346702 | AZ346702 | AZ346702 |
| C 605 | 10 | 0.4 | 19 | 6 | CF337272 | CF337272 | C 678 | 10 | 0.4 | 20 | 9 | AZ359918 | AZ359918 | AZ359918 |
| C 606 | 10 | 0.4 | 19 | 6 | CF337608 | CF337608 | C 679 | 10 | 0.4 | 20 | 9 | AZ370699 | AZ370699 | AZ370699 |

| | | | | | | | | | | | | | |
|-------|----|-----|----|----|-----------|---------------------|-------|----|-----|----|----|-----------|--------------------|
| 680 | 10 | 0.4 | 20 | 9 | AZ387870 | 1M0147019 | 753 | 10 | 0.4 | 21 | 9 | AZ316019 | 1M0033C05 |
| 681 | 10 | 0.4 | 20 | 9 | AZ390214 | 1M0151021 | c 754 | 10 | 0.4 | 21 | 9 | AZ320773 | 1M0041C24 |
| c 682 | 10 | 0.4 | 20 | 9 | AZ427350 | 1M0209F17 | c 755 | 10 | 0.4 | 21 | 9 | AZ339966 | 1M0071L11 |
| c 683 | 10 | 0.4 | 20 | 9 | AZ427740 | 1M0209Q23 | c 756 | 10 | 0.4 | 21 | 9 | AZ341842 | 1M0074F05 |
| c 684 | 10 | 0.4 | 20 | 9 | AZ435787 | 1M0223G02 | 757 | 10 | 0.4 | 21 | 9 | AZ365904 | 1M0112H20 |
| c 685 | 10 | 0.4 | 20 | 9 | AZ445379 | 1M0241E07 | 758 | 10 | 0.4 | 21 | 9 | AZ367152 | 1M0116M07 |
| c 686 | 10 | 0.4 | 20 | 9 | AZ455752 | 1M0258F17 | 759 | 10 | 0.4 | 21 | 9 | AZ402083 | 1M0169A15 |
| c 687 | 10 | 0.4 | 20 | 9 | AZ469217 | 1M0282A08 | c 760 | 10 | 0.4 | 21 | 9 | AZ429736 | 1M0213A23 |
| c 688 | 10 | 0.4 | 20 | 9 | AZ479732 | 1M0300A09 | c 761 | 10 | 0.4 | 21 | 9 | AZ430565 | 1M0215A08 |
| c 689 | 10 | 0.4 | 20 | 9 | AZ482011 | 1M0306G17 | c 762 | 10 | 0.4 | 21 | 9 | AZ433408 | 1M0219E16 |
| 690 | 10 | 0.4 | 20 | 9 | AZ482421 | 1M0307F01 | 763 | 10 | 0.4 | 21 | 9 | AZ450825 | 1M0249D15 |
| 691 | 10 | 0.4 | 20 | 9 | AZ489135 | 1M0319H15 | c 764 | 10 | 0.4 | 21 | 9 | AZ458050 | 1M0261C14 |
| c 692 | 10 | 0.4 | 20 | 9 | AZ489135 | 1M0319H15 | 765 | 10 | 0.4 | 21 | 9 | AZ473515 | 1M0289M20 |
| 693 | 10 | 0.4 | 20 | 9 | AZ584232 | 1M0388A12 | 766 | 10 | 0.4 | 21 | 9 | AZ580960 | 1M0369P04 |
| 694 | 10 | 0.4 | 20 | 9 | AZ592714 | 1M0403F13 | c 767 | 10 | 0.4 | 21 | 9 | AZ587213 | 1M0394L11 |
| 695 | 10 | 0.4 | 20 | 9 | AZ633741 | 1M0489G12 | c 768 | 10 | 0.4 | 21 | 9 | AZ602152 | 1M0420H13 |
| 696 | 10 | 0.4 | 20 | 9 | AZ638704 | 1M0498E13 | c 769 | 10 | 0.4 | 21 | 9 | AZ625565 | 1M0465H10 |
| 697 | 10 | 0.4 | 20 | 9 | AZ642891 | 1M0506D12 | c 770 | 10 | 0.4 | 21 | 9 | AZ6647578 | 1M0514I17 |
| 698 | 10 | 0.4 | 20 | 9 | AZ662792 | 1M0542P02 | c 771 | 10 | 0.4 | 21 | 9 | AZ654883 | 1M0529O19 |
| 699 | 10 | 0.4 | 20 | 9 | AZ662909 | 1M0542P02 | c 772 | 10 | 0.4 | 21 | 9 | AZ660559 | 1M0538P09 |
| c 700 | 10 | 0.4 | 20 | 9 | AZ770021 | 1M0571J16 | c 773 | 10 | 0.4 | 21 | 9 | AZ663083 | 1M0542H02 |
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| c 703 | 10 | 0.4 | 20 | 9 | AZ796123 | 2M0026B01 | c 776 | 10 | 0.4 | 21 | 9 | AZ785791 | 1M0030O19 |
| c 704 | 10 | 0.4 | 20 | 9 | AZ802218 | 2M0051O04 | 777 | 10 | 0.4 | 21 | 9 | AZ796205 | 2M0051O13 |
| c 705 | 10 | 0.4 | 20 | 9 | AZ803595 | 2M0060J19 | c 778 | 10 | 0.4 | 21 | 9 | AZ796205 | 2M0051O13 |
| c 706 | 10 | 0.4 | 20 | 9 | AZ808291 | 2M0064C04 | c 779 | 10 | 0.4 | 21 | 9 | AZ802584 | 2M0061I05 |
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| 709 | 10 | 0.4 | 20 | 9 | AZ832946 | 2M0113M11 | 782 | 10 | 0.4 | 21 | 9 | AZ825201 | 2M0100G16 |
| c 710 | 10 | 0.4 | 20 | 9 | AZ848317 | 2M0149L16 | c 783 | 10 | 0.4 | 21 | 9 | AZ828233 | 2M0105B09 |
| 711 | 10 | 0.4 | 20 | 9 | AZ938837 | 2M0197L06 | 784 | 10 | 0.4 | 21 | 9 | AZ831193 | 2M0112M01 |
| 712 | 10 | 0.4 | 20 | 9 | AZ943013 | 2M0203C01 | 785 | 10 | 0.4 | 21 | 9 | AZ848427 | 2M0149T23 |
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| c 714 | 10 | 0.4 | 20 | 9 | AZ992141 | 2M0276K11 | c 787 | 10 | 0.4 | 21 | 9 | AZ955804 | 2M0222L03 |
| 715 | 10 | 0.4 | 20 | 10 | AG201573 | AG201573 Pan t:rogl | 788 | 10 | 0.4 | 21 | 10 | AZ993804 | 2M0279D05 |
| c 716 | 10 | 0.4 | 20 | 10 | AG202281 | AG202281 Pan t:rogl | 789 | 10 | 0.4 | 21 | 10 | CZ442920 | IBF3F07.f |
| c 717 | 10 | 0.4 | 20 | 10 | AJ597717 | AJ597717 Arabidops | 790 | 10 | 0.4 | 21 | 10 | AG190023 | Pan t:rogl |
| c 718 | 10 | 0.4 | 20 | 10 | CL668627 | PR10158D- | 791 | 10 | 0.4 | 21 | 10 | AG202804 | Pan t:rogl |
| c 719 | 10 | 0.4 | 20 | 10 | CL670575 | PR10162C- | c 792 | 10 | 0.4 | 21 | 10 | AJ591211 | Arabidops |
| c 720 | 10 | 0.4 | 20 | 10 | CL680297 | PR10128C | 793 | 10 | 0.4 | 21 | 10 | CL670085 | PR10161A |
| c 721 | 10 | 0.4 | 20 | 11 | TA159A03P | TA172050 T. brucei | c 794 | 10 | 0.4 | 21 | 10 | CL693174 | PR10160B |
| c 722 | 10 | 0.4 | 21 | 1 | AJ6663325 | AJ6663325 | 795 | 10 | 0.4 | 21 | 11 | CW020436 | GC0698 TI |
| c 723 | 10 | 0.4 | 21 | 1 | AJ668099 | AJ668099 | 796 | 10 | 0.4 | 21 | 11 | CT014401 | KB+H122K2 |
| c 724 | 10 | 0.4 | 21 | 1 | AJ747550 | AJ747550 | 797 | 10 | 0.4 | 21 | 11 | CT019251 | KB+H126K2 |
| 725 | 10 | 0.4 | 21 | 1 | AL038627 | DKF2p566H | c 798 | 10 | 0.4 | 21 | 11 | CT022338 | KB+H133P0 |
| 726 | 10 | 0.4 | 21 | 1 | AU255698 | AU255698 | c 799 | 10 | 0.4 | 21 | 11 | TA26F03Q | AL453658 T. brucei |
| c 727 | 10 | 0.4 | 21 | 1 | AW246804 | AW246804 | 800 | 10 | 0.4 | 22 | 1 | AA868842 | ak54g08.s |
| c 728 | 10 | 0.4 | 21 | 1 | AW248936 | AW248936 | c 801 | 10 | 0.4 | 22 | 1 | AA889765 | al50e12.s |
| 729 | 10 | 0.4 | 21 | 5 | BX558801 | BX558801 | c 802 | 10 | 0.4 | 22 | 1 | AA897590 | cm29e05.s |
| c 730 | 10 | 0.4 | 21 | 6 | CD534087 | CD534087 | c 803 | 10 | 0.4 | 22 | 1 | AA980141 | ua30d06.r |
| c 731 | 10 | 0.4 | 21 | 6 | CF276638 | CF276638 | c 804 | 10 | 0.4 | 22 | 1 | AI001073 | os66c10.s |
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| 733 | 10 | 0.4 | 21 | 6 | CF282068 | CF282068 | c 806 | 10 | 0.4 | 22 | 1 | AI256837 | ui21g03.y |
| 734 | 10 | 0.4 | 21 | 6 | CF297513 | CF297513 | 807 | 10 | 0.4 | 22 | 1 | AI318264 | tb03b12.x |
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| c 736 | 10 | 0.4 | 21 | 6 | CF319122 | CF319122 | c 809 | 10 | 0.4 | 22 | 1 | AI802211 | tj36a10.x |
| c 737 | 10 | 0.4 | 21 | 6 | CF324789 | CF324789 | 810 | 10 | 0.4 | 22 | 1 | AJ649192 | AJ649192 |
| 738 | 10 | 0.4 | 21 | 6 | CF326433 | CF326433 | c 811 | 10 | 0.4 | 22 | 1 | AJ687054 | AJ687054 |
| c 739 | 10 | 0.4 | 21 | 6 | CF338234 | CF338234 | 812 | 10 | 0.4 | 22 | 1 | AJ695748 | AJ695748 |
| 740 | 10 | 0.4 | 21 | 7 | CN752399 | CN752399 | 813 | 10 | 0.4 | 22 | 1 | AL038142 | DKF2p566E |
| c 741 | 10 | 0.4 | 21 | 7 | CO786387 | CO786387 | 814 | 10 | 0.4 | 22 | 1 | AJ257837 | AJ257837 |
| c 742 | 10 | 0.4 | 21 | 8 | CK002713 | CK002713 | c 815 | 10 | 0.4 | 22 | 1 | AU263583 | AU263583 |
| c 743 | 10 | 0.4 | 21 | 8 | DN955603 | DN955603 | c 816 | 10 | 0.4 | 22 | 1 | AW246526 | AW246526 |
| 744 | 10 | 0.4 | 21 | 8 | DN955830 | DN955830 | c 817 | 10 | 0.4 | 22 | 1 | AW249729 | AW249729 |
| c 745 | 10 | 0.4 | 21 | 8 | DR065210 | DR065210 | c 818 | 10 | 0.4 | 22 | 1 | AW250395 | AW250395 |
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| c 747 | 10 | 0.4 | 21 | 9 | AZ308559 | AZ308559 | c 820 | 10 | 0.4 | 22 | 2 | BM398560 | BM398560 |
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| c 750 | 10 | 0.4 | 21 | 9 | AZ309774 | AZ309774 | c 823 | 10 | 0.4 | 22 | 6 | CF299617 | CF299617 |
| c 751 | 10 | 0.4 | 21 | 9 | AZ313630 | AZ313630 | c 824 | 10 | 0.4 | 22 | 6 | CF300396 | CF300396 |
| 752 | 10 | 0.4 | 21 | 9 | AZ313684 | AZ313684 | c 825 | 10 | 0.4 | 22 | 6 | CF332861 | CF332861 |

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| 826 | 10 | 0.4 | 22 | 7 | CK151325 | CK151325 GS1-115 S | 899 | 10 | 0.4 | 22 | 11 | TA282D06P | AL487877 T. brucei |
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| 828 | 10 | 0.4 | 22 | 7 | CO784859 | BL2HD_E1 | C 901 | 10 | 0.4 | 22 | 11 | TA314H07Q | AL489314 T. brucei |
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| C 836 | 10 | 0.4 | 22 | 9 | AZ307559 | 1M0005020 | C 909 | 10 | 0.4 | 23 | 1 | AU267170 | AU267170 AU267170 |
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| 866 | 10 | 0.4 | 22 | 9 | AZ640656 | 1M0502K14 | C 939 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
| 867 | 10 | 0.4 | 22 | 9 | AZ661445 | 1M0540K11 | C 940 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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| C 869 | 10 | 0.4 | 22 | 9 | AZ762337 | 1M0557P13 | C 942 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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| C 872 | 10 | 0.4 | 22 | 9 | AZ785866 | 2M0030O02 | C 945 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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| C 876 | 10 | 0.4 | 22 | 9 | AZ807243 | 2M0069M22 | C 949 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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| 880 | 10 | 0.4 | 22 | 9 | AZ844290 | 2M0143A10 | C 953 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
| 881 | 10 | 0.4 | 22 | 9 | AZ853439 | 2M0156F07 | C 954 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
| 882 | 10 | 0.4 | 22 | 9 | AZ854329 | 2M0157C14 | C 955 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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| C 894 | 10 | 0.4 | 22 | 11 | TA181E11P | AL474328 T. brucei | C 966 | 10 | 0.4 | 23 | 2 | CF334146 | CF334146 JMT--03-F |
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ALIGNMENTS

```

RESULT 1
CZ442773/c
LOCUS
DEFINITION
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CZ442773
GSS.
SOURCE
  Homo sapiens (human)
ORGANISM
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  Homnidae; Homo.
REFERENCE
  1 (bases 1 to 22)
  Lewinski,M.K., Bisgrove,D., Shinn,P., Chen,H., Hoffmann,C.,
  Hannehalli,S., Verdin,B., Berry,C.C., Ecker,J.R. and Bushman,F.D.
  Genome-wide analysis of chromosomal features repressing human
  immunodeficiency virus transcription
  J. Virol. 79 (11), 6610-6619 (2005)
15990899
Contact: Bushman FD
Department of Microbiology
University of Pennsylvania School of Medicine
402C Johnson Pavilion, 3610 Hamilton Walk, Philadelphia, PA
19104-6076, USA
Tel: 215 573 8732
Fax: 215 573 4856
Email: bushman@mail.med.upenn.edu
Class: PCR with specific primers.
Location/Qualifiers
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  /clone_lib="HIV-vector integration sites from
  well-expressed proviruses in human Jurkat T cells"
FEATURES
  source

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/note="Vector: LTR-Tat-IRES-GFP (pEV731); We have investigated regulatory sequences in noncoding human DNA that are associated with repression of an integrated human immunodeficiency virus type 1 (HIV-1) promoter. HIV-1 integration results in the formation of precise and homogeneous junctions between viral and host DNA, but integration takes place at many locations. Thus, the variation in HIV-1 gene expression at different integration sites reports the activity of regulatory sequences at nearby chromosomal positions. Negative regulation of HIV transcription is of particular interest because of its association with maintaining HIV in a latent state in cells from infected patients. To identify chromosomal regulators of HIV transcription, we infected Jurkat T cells with an HIV-based vector transducing green fluorescent protein (GFP) and separated cells into populations containing well-expressed (GFP-positive) or poorly expressed (GFP-negative) proviruses. We then determined the chromosomal locations of the two classes by sequencing 971 junctions between viral and cellular DNA. Possible effects of endogenous cellular transcription were characterized by transcriptional profiling. Low-level GFP expression correlated with integration in (i) gene deserts, (ii) centromeric heterochromatin, and (iii) very highly expressed cellular genes. These data provide a genome-wide picture of chromosomal features that repress transcription and suggest models for transcriptional latency in cells from HIV-infected patients."

ORIGIN

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Query Match      0.7%; Score 17; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.2e+04;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1082 GCCCAGGAGCATGAGAC 1098
Db 19 GCCCAGGAGCATGAGAC 3
|||||
19 GCCCAGGAGCATGAGAC 3

RESULT 2
CZ442773/c
LOCUS
DEFINITION
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ACCESSION
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VERSION
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KEYWORDS
  GSS.
SOURCE
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ORGANISM
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  Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
  Homnidae; Pan.
REFERENCE
  1
  Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
  Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
  BAC end sequences of Library RP-43
  Unpublished
  2 (bases 1 to 22)
  Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
  Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
  Direct Submission
  Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
  Bioscience and Biotechnology (KRIBB), Genome Research Center (GRC);
  52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea
  (E-mail:redstone@mail.krribb.re.kr, URL:http://phs.grc.krribb.re.kr/,
  Tel:82-42-866-7181, Fax:82-42-860-4409)
  Clones are derived from the chimpanzee BAC library RP-43 This BAC
  end was generated during the R&D process and may have higher chance
  of clone tracking errors.
  PRIMERS
  Sequencing: TJ
  LIBRARY
  Vector : pBACe3.6

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R.Site 2 : EcoRI.
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/clone="RP43-084N04.TJ"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"

FEATURES

source

ORIGIN

Query Match 0.6%; Score 15; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 251 ACCCAGGATGACGAG 265
|||||
Db 21 ACCCAGGATGACGAG 7

RESULT 3

AI000095/c
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ACCESSION AI000095
VERSION AI000095.1 GI:3190649
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 25)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1853 Std Error: 0.00
Seq primer: -40ml3 fwd. Et from Amersham
High quality sequence stop: 1.

FEATURES

source

1. .25
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1609814"
/sex="female, pooled"
/tissue_type="breast"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Br2"
/note="Vector: pTT3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from pooled bulk breast tumor tissue, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTT3 vector. This library is the normalized version of

NCI_CGAP Br1.1. Library was constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match 0.6%; Score 15; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 241 CACCAACACCAACCA 255
|||||
Db 21 CACCAACACCAACCA 7

RESULT 4

AZ582229
LOCUS AZ582229 27 bp DNA linear GSS 13-DEC-2000
DEFINITION IM0374B05R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0374B05 R, genomic survey sequence.
ACCESSION AZ582229
VERSION AZ582229.1 GI:11700904
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridea; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 27)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0374 row: B column: 05
Seq primer: CACACGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

source

1. .27
Location/Qualifiers
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0374B05"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to

adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 0.6%; Score 15; DB 9; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2217 GGTTAGGGGTGGGG 2231
Db 8 GGTTAGGGGTGGGG 22

RESULT 5
AW249512/c
LOCUS
DEFINITION 2821233.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821233 3',
mRNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

AW249512
2821233.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821233 3',
mRNA sequence.
AW249512.1 GI:5592505
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

1 (bases 1 to 28)
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Other ESTs: 2821233 5prime
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nhl.gov
Tissue Procurement: DCD/DFP cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LLNL) DNA Sequencing by: Berkeley MGC sequencing
project
Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.lnl.gov/bbrp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross match from University of Washington Genome Center
PHRAP suite. Poly-T Identification: patMatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 16
contiguous PHRED high quality bases following vector sequence. Very
Low Quality Sequence: Trace file contained 28 contiguous distinct
peaks following vector sequence. Polyadenylation: Based upon the
presence of a XhoI site followed by a run of 14 or more T residues
at the beginning of the sequence, this cDNA insert was
polyadenylated.
Plate: LUCM6 row: E column: 10
High quality sequence stop: 16.
Location/Qualifiers

FEATURES

source
1..28
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2821233"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_hosts="NIH_MGC_7"
/clone_lib="NIH_MGC_7"
/note="Organ: lung; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN

Query Match 0.6%; Score 15; DB 1; Length 28;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2312 AGTGAGAAAAAAA 2326
Db 16 AGTGAGAAAAAAA 2

RESULT 6
CZ909748/c
LOCUS
DEFINITION 4018011C02.2EL_y1 4018 - RescueMu Grid X Zea mays genomic, genomic
survey sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

CZ909748
4018011C02.2EL_y1 4018 - RescueMu Grid X Zea mays genomic, genomic
survey sequence.
CZ909748
GSS.
Zea mays
Zea mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

1 (bases 1 to 30)
Walbot, V.
Maize genomic sequences found using engineered RescueMu transposon
Unpublished (2001)
Contact: Walbot V
Department of Biological Sciences
Stanford University
855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu

Possible ligation site of ends cut by 2 different endonucleases.
Reverse complemented post-ligation sequence from source sequence.
Plate: 4018011 row: C column: 02
Class: transposon-tagged.
Location/Qualifiers

FEATURES

source
1..30
/organism="Zea mays"
/mol_type="genomic DNA"
/cultivar="mixed background W23/A188/B73/K55"
/db_xref="taxon:4577"
/tissue_type="leaf"
/dev_stage="adult"
/lab_hosts="DH10B"
/clone_lib="4018 - RescueMu Grid X"
/note="Organ: leaf; Vector: RescueMu (engineered from
pBlueScript backbone); Site_1: BamHI; Site_2: BglII;
RescueMu is a 4.9 kb, modified maize Mu transposon
designed to allow plasmid rescue from total genomic DNA.
Mu elements insert preferentially into transcription
units. For more information on RescueMu, go to the web
site 'http://www.mutransposon.org/project/RescueMu/'. Grid
X was grown at UCSD in 2003. DNA was extracted from leaf
strips, double digested using BamHI and BglII, and ligated
to form circular plasmids. DH10B cells were transformed
and then screened on LB plates with ampicillin."

ORIGIN

Query Match 0.6%; Score 15; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1920 AAAAAAACCTTCAA 1934
Db 19 AAAAAAACCTTCAA 5

RESULT 7
AZ808800/c
LOCUS
DEFINITION 2M0072F01R Mouse 10kb plasmid UUGC1M library Mus musculus genomic


```

clone UUGC2M0072F01 R, genomic survey sequence.
AZ080800
VERSION AZ080800.1 GI:12974523
GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus (house mouse)

REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0072 row: F column: 01
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
1..20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strains="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0072F01"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PMP42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match 0.6%; Score 14; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.7e+05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2183 AAGGAAAGGGGCGCT 2196
|||||
DB 14 AAGGAAAGGGGCGCT 1

RESULT 8
AZ345454/c 23 bp DNA linear GSS 29-SEP-2000
LOCUS AZ345454

clone UUGC1M0080J10 F, genomic survey sequence.
1M0080J10F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0080J10 F, genomic survey sequence.
AZ345454
VERSION AZ345454.1 GI:10424691
GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus (house mouse)

REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0080 row: J column: 10
Seq primer: CGTTGTAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 23.
Location/Qualifiers
1..23
/organism="Mus musculus"
/mol_type="genomic DNA"
/strains="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0080J10"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PMP42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match 0.6%; Score 14; DB 9; Length 23;
Best Local Similarity 100.0%; Pred. No. 4.7e+05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1910 AAAAAGGAGGAAAA 1923
|||||
DB 22 AAAAAGGAGGAAAA 9

RESULT 9
AJ647608/c

```

```

LOCUS      AJ647608      19 bp      mRNA      linear      EST 07-JUL-2004
DEFINITION AJ647608 CSEQAN19 Sus scrofa cDNA clone C0003260_C14, mRNA
ACCESSION  AJ647608
VERSION     AJ647608.1 GI:49324453
KEYWORDS   EST.
SOURCE      Sus scrofa (pig)
ORGANISM   Sus scrofa
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
            Sus.
REFERENCE  1 (bases 1 to 19)
            Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
            Development of cDNA and EST resources for studying reproduction and
            embryo development in pigs and cattle
            Unpublished (2004)
            Contact: Anderson SI
            Genomics and Bioinformatics
            Roslin Institute
            Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
            Single pass sequencing. Bases called and trimmed with phred
            v0.020425.c. Vector identified by cross_match with the -minscore 20
            and -minmatch 12 options. Vector:pBlueScriptII(KS) R. Site1: EcoRI
            R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
            from pooled ovaries. Clones available from UK Centre for Functional
            Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,
            EH25 9PS, www.ark-genomics.org.
FEATURES   source
            Location/Qualifiers
                1..19
                /organism="Sus scrofa"
                /mol_type="mRNA"
                /db_xref="taxon:9823"
                /clone="C0003260_C14"
                /tissue_type="ovary"
                /clone_lib="CSEQAN19"
                /note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
                NotI; Single pass sequencing; Normalised library
                constructed from pooled ovaries"
ORIGIN
            Query Match      0.6%; Score 13; DB 1; Length 19;
            Best Local Similarity 100.0%; Pred. No. 1.6e+06;
            Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      753 AGGAAGTCAATTA 765
Db      16 AGGAAGTCAATTA 4
            |||||
            |||||

RESULT 10
AJ588628/c
LOCUS      AJ588628      20 bp      DNA      linear      GSS 15-JAN-2004
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
534H10, genomic survey sequence.
ACCESSION  AJ588628
VERSION     AJ588628.1 GI:37938252
KEYWORDS   GSS; left border; T-DNA flanking sequence.
SOURCE      Arabidopsis thaliana (thale cress)
ORGANISM   Arabidopsis thaliana
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
            rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
12446565
PUBMED
2 (bases 1 to 20)
AUTHORS
Balzergue,S.
Direct Submission
TITLE
JOURNAL
COMMENT
            Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
            Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
            Lepiniec,L., Caboche,M. and Lecharny,A.
            T-DNA integration into the Arabidopsis genome depends on sequences
            of pre-insertion sites
            EMBO Rep. 3 (12), 1152-1157 (2002)
            12446565
            Balzergue,S.
            Direct Submission
            TITLE
            JOURNAL
            COMMENT

```

```

JOURNAL    Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue
COMMENT     Gaston Cremieux, 91057 Evry cedex, FRANCE
            PCR was performed on DNA from transformants of Arabidopsis thaliana
            plants from INRA (Versailles). The DNA fragment(s) resulting from
            the PCR were directly sequenced from the left or the right border
            to determine the genomic sequence flanking the insertion. T-DNA
            derived sequences were removed. Information to order the
            corresponding mutant line and a link to a database providing a
            graphical display of the insertion site are available at
            http://dbgap.versailles.inra.fr/publiclines/. This sequence has
            been generated in the framework of the French plant genomics
            program 'Genoplatane' (http://www.genoplatane.com and
            http://genoplatane-info.infobiogen.fr).
FEATURES   source
            Location/Qualifiers
                1..20
                /organism="Arabidopsis thaliana"
                /mol_type="genomic DNA"
                /db_xref="taxon:3702"
                /clone="534H10"
                /clone_lib="Arabidopsis thaliana T-DNA insertion lines"
                /ecotype="Wassilewskija"
                /note="T-DNA flanking sequence
                left border"
                1..20
            misc_feature
            ORIGIN
            Query Match      0.6%; Score 13; DB 10; Length 20;
            Best Local Similarity 100.0%; Pred. No. 1.6e+06;
            Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2153 AATGTGAGAAAAA 2165
Db      19 AATGTGAGAAAAA 7
            |||||
            |||||

RESULT 11
AJ599954/c
LOCUS      AJ599954      20 bp      DNA      linear      GSS 15-JAN-2004
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
497C03, genomic survey sequence.
ACCESSION  AJ599954
VERSION     AJ599954.1 GI:37949582
KEYWORDS   GSS; left border; T-DNA flanking sequence.
SOURCE      Arabidopsis thaliana (thale cress)
ORGANISM   Arabidopsis thaliana
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
            rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
12446565
PUBMED
2 (bases 1 to 20)
AUTHORS
Balzergue,S.
Direct Submission
TITLE
JOURNAL
COMMENT
            Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
            Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
            Lepiniec,L., Caboche,M. and Lecharny,A.
            T-DNA integration into the Arabidopsis genome depends on sequences
            of pre-insertion sites
            EMBO Rep. 3 (12), 1152-1157 (2002)
            12446565
            Balzergue,S.
            Direct Submission
            TITLE
            JOURNAL
            COMMENT

```

FEATURES

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source
1. .20
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/db_xref="taxon:3702"
/clone="497C03"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/ecotypes="Wassilewskija"
misc_feature
1. .20
/note="T-DNA flanking sequence
left border"
ORIGIN
Query Match          0.6%; Score 13; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2153 AATGTGAGAAAA 2165
      |||||
Db      19 AATGTGAGAAAA 7

RESULT 12
AJ649792/c
LOCUS
DEFINITION
AJ649792          21 bp      mRNA      linear      EST 07-JUL-2004
sequence.
ACCESSION
AJ649792
VERSION
AJ649792.1      GI:49326637
KEYWORDS
EST.
SOURCE
Sus scrofa (pig)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
Sus.
REFERENCE
1 (bases 1 to 21)
Anderson,S.I.; Finlayson,H.A. and Archibald,A.L.
Development of cDNA and EST resources for studying reproduction and
embryo development in pigs and cattle
Unpublished (2004)
JOURNAL
Contact: Anderson SI
COMMENT
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
v0.020425.c. Vector identified by cross match with the -minscore 20
and -minmatch 12 options. Vector:pBlueScriptII(KS) R. Site1: EcoRI
R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
from pooled ovaries. Clones available from UK Centre for Functional
Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,
EH25 9PS, www.ark-genomics.org.
Location/Qualifiers
FEATURES
source
1. .21
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="C0003273_I01"
/tissue_type="ovary"
/clone_lib="CSEQRAN19"
/note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
NotI; Single pass sequencing; Normalised library
constructed from pooled ovaries"
ORIGIN
Query Match          0.6%; Score 13; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2014 TGGAGGAGACCAG 2026
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Db      13 TGGAGGAGACCAG 1

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/lab_host="E. Coli strain XL10-Gold, Tl-resistant, P-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57Bl/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 [gi|4732114|gb|AF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match          0.6%; Score 13; DB 9; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      213 ATTCAGCAGCTG 225
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Db      13 ATTCAGCAGCTG 1

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A2834857/c
LOCUS
DEFINITION
A2834857          21 bp      DNA      linear      GSS 20-FEB-2001
clone UUGC2M0117H17 R, genomic survey sequence.
ACCESSION
A2834857
VERSION
A2834857.1      GI:13004765
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Mus.
1 (bases 1 to 21)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weise,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
REFERENCE
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 309, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0117 row: H column: 17
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 21.
Location/Qualifiers
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/strain="C57BL/6J"
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/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, P-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57Bl/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 [gi|4732114|gb|AF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match          0.6%; Score 13; DB 9; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      213 ATTCAGCAGCTG 225
      |||||
Db      13 ATTCAGCAGCTG 1

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RESULT 14
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 LOCUS 1M0109H16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 DEFINITION clone UUGC1M0109H16 F, genomic survey sequence.
 ACCESSION AZ363658
 VERSION 1 GI:10477358
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Mus.
 1 (bases 1 to 24)
 DUNN, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, R., Stokes, R., Tingley, A., von
 Niederhausern, A. and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 CONTACT: Robert B. Weiss
 UNIVERSITY of Utah Genome Center
 UNIVERSITY of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0109 row: H column: 16
 Seq primer: CGTTGTAACACGCGCCAGT
 Class: plasmid ends
 High quality sequence stop: 24.
 Location/Qualifiers
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 /sex="Male"
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 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pWD42 [gi|4732114|gb|AF129072.1], a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

FEATURES

source

RESULT 15
 AZ601725/24 bp DNA linear GSS 13-DEC-2000
 LOCUS 1M0420E12F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 DEFINITION clone UUGC1M0420E12 F, genomic survey sequence.
 ACCESSION AZ601725
 VERSION 1 GI:11723915
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Mus.
 1 (bases 1 to 24)
 DUNN, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, R., Stokes, R., Tingley, A., von
 Niederhausern, A. and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 CONTACT: Robert B. Weiss
 UNIVERSITY of Utah Genome Center
 UNIVERSITY of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0420 row: E column: 12
 Seq primer: CGTTGTAACACGCGCCAGT
 Class: plasmid ends
 High quality sequence stop: 24.
 Location/Qualifiers
 1..24
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 /db_xref="taxon:10090"
 /clone="UUGC1M0420E12"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pWD42 [gi|4732114|gb|AF129072.1], a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

FEATURES

source

ORIGIN

Query Match 0.6%; Score 13; DB 9; Length 24;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1113 AAAAGTGGCAGA 1125
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 Db 16 AAAAGTGGCAGA 4

ORIGIN

Query Match 0.6%; Score 13; DB 9; Length 24;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 342 CCACCACCTGCC 354
 |||||||||
 Db 14 CCACCACCTGCC 2

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RESULT 16
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LOCUS
DEFINITION
tr21a09.x1 NCI CGAP Ov23 Homo sapiens cDNA clone IMAGE:2218936 3'
similar to TR:Q34096 Q34096 MURF2 PROTEIN. ;contains element L1 L1
repetitive element 1; mRNA sequence.
ACCESSION
A1745099
VERSION
A1745099.1 GI:5113387
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens

REFERENCE
1 (bases 1 to 25)
AUTHORS
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
Melville, S.E., Rajandream, M.A. and Barrell, B.G.
TITLE
Direct Submission
JOURNAL
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nhi@sanger.ac.uk
COMMENT
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (
4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES
source
1..25
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/clone="225c03"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2296 AGCAATTAARAG 2308
Db |||||
25 AGCAATTAARAG 13

RESULT 18
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LOCUS
DEFINITION
1M0145E08F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0145E08 F, genomic survey sequence.
ACCESSION
A2386258
VERSION
A2386258.1 GI:10499958
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Mus.

REFERENCE
1 (bases 1 to 26)
AUTHORS
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.
TITLE
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL
Unpublished (2000)
COMMENT
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0145 row: E column: 08
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 26.

RESULT 17
TA225C030/c
LOCUS
DEFINITION
T. brucei sheared genomic DNA clone 225c03, reverse sequence,
genomic survey sequence.
ACCESSION
AL480476
VERSION
AL480476.1 GI:11846245
KEYWORDS
GSS.
SOURCE
Trypanosoma brucei
ORGANISM
Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.

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| | | | | |
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| FEATURES | source | Location/Qualifiers | | High quality sequence stop: 26. Location/Qualifiers |
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| ORIGIN | | | | |
| Query Match 0.6%; Score 13; DB 9; Length 26; Best Local Similarity 100.0%; Pred. No. 1.6e+06; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | |
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| DB | 21 | CCTCACCATGGGC 9 | 21 | ATGCACATAGAGC 9 |
| RESULT 19 | | | | |
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| LOCUS | AZ831059 26 bp DNA linear GSS 20-FEB-2001 | | | |
| DEFINITION | 2M0110C11R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0110C11 R, genomic survey sequence. | | | |
| ACCESSION | AZ831059 | | | |
| VERSION | AZ831059.1 GI:13000967 | | | |
| KEYWORDS | GSS. | | | |
| SOURCE | Mus musculus (house mouse) | | | |
| ORGANISM | Mus musculus | | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridea; Muridae; Murinae; Mus. | | | |
| AUTHORS | 1 (bases 1 to 26) Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R. | | | |
| TITLE | Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts | | | |
| JOURNAL | Unpublished (2000) | | | |
| COMMENT | Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0110 row: C column: 11 Seq primer: CACACGGAACAGCTATGACC Class: plasmid ends | | | |

| | | | | |
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| ORIGIN | | | | |
| Query Match 0.6%; Score 13; DB 9; Length 26; Best Local Similarity 100.0%; Pred. No. 1.6e+06; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | |
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| DB | 21 | ATGCACATAGAGC 9 | CZ910031 CZ910031 GSS. CZ910031.1 GI:71923399 Zea mays | |
| RESULT 20 | | | | |
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| DEFINITION | 4012001A01.1ELy1 4012 - RescueMu Grid BB Zea mays genomic, genomic survey sequence. | | | |
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| VERSION | CZ910031.1 GI:71923399 | | | |
| KEYWORDS | GSS. | | | |
| SOURCE | Zea mays | | | |
| ORGANISM | Zea mays | | | |
| REFERENCE | Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea. | | | |
| AUTHORS | 1 (bases 1 to 26) Walbot,V. | | | |
| TITLE | Maize genomic sequences found using engineered RescueMu transposon | | | |
| JOURNAL | Unpublished (2001) | | | |
| COMMENT | Contact: Walbot V Department of Biological Sciences Stanford University 855 California Ave, Palo Alto, CA 94304, USA Tel: 650 723 2227 Fax: 650 725 8221 Email: walbot@stanford.edu Very probable ligation site of ends cut by single endonuclease. Reverse complemented post-ligation sequence from source sequence. Plate: 4012001 row: A column: 01 Class: transposon-tagged. Location/Qualifiers 1. .26 /organism="Zea mays" /mol_type="genomic DNA" | | | |

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/db_xref="taxon:4577"  
/tissue_type="leaf"  
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/lab_host="DH10B"  
/clone_lib="4012 - RescueMu Grid BB"  
/note="Organ: leaf; Vector: RescueMu (engineered from  
phuescript backbone); Site 1: BamHI; Site 2: BglII;  
RescueMu is a 4.9 kb, modified maize Mu transposon  
designed to allow plasmid rescue from total genomic DNA.  
Mu elements insert preferentially into transcription  
units. For more information on RescueMu, go to the web  
site 'http://www.mutransposon.org/project/RescueMu/'. Grid  
BB was grown at UC Berkeley in 2001. DNA was extracted  
from leaf strips, double digested using BamHI and BglII,  
and ligated to form circular plasmids. DH10B cells were  
transformed and then screened on LB plates with  
ampicillin."
```

ORIGIN

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Query Match      0.6%; Score 13; DB 10; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1.6e+06;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db       17 ACCTCTTGGGGG 5
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Search completed: January 13, 2006, 14:24:38
Job time : 9278 secs

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